



| 5' -                                                                                       | -3'                                        | obs                                                   |        |
|--------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------|
| ucuuuugcccuugguguc                                                                         | caaaagugcuguuugugcaaguagauaaacucaucagaccua | cugcaaaaccagcauuuucugacucauaaggugcaccacucagccggguucc  | exp    |
| ucuuuugcccuugguguc                                                                         | caaaagugcuguuugugcaaguagauaaacucaucagaccua | acugcaaaaccagcauuuucugacucauaaggugcaccacucagccggguucc |        |
| .....(((.((((.((((.((((.((((.((((.((((.(.....))))))))).).))))))))).).).))))).).).))))..... | reads                                      | mm                                                    | sample |
| .....ccaaagugcuguuugugcaagu.....                                                           | 1                                          | 0                                                     | s02    |
| .....caaagugcuguuugugcaa.....                                                              | 2                                          | 0                                                     | s02    |
| .....caaagugcuguuuUugcaag.....                                                             | 1                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcaag.....                                                             | 11                                         | 0                                                     | s02    |
| .....caaagugcuguuugugcaaU.....                                                             | 1                                          | 1                                                     | s02    |
| .....Aaaagugcuguuugugcaagu.....                                                            | 1                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcCagu.....                                                            | 1                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcGagu.....                                                            | 1                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcaagA.....                                                            | 1                                          | 1                                                     | s02    |
| .....caaagGgcuguuugugcaagu.....                                                            | 2                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcaagu.....                                                            | 94                                         | 0                                                     | s02    |
| .....caaagugcuguuuuguUcaagua.....                                                          | 1                                          | 1                                                     | s02    |
| .....caaagugAuguuugugcaagua.....                                                           | 2                                          | 1                                                     | s02    |
| .....caaagugcuguuuUugcaagua.....                                                           | 1                                          | 1                                                     | s02    |
| .....caaGgugcuguuugugcaagua.....                                                           | 2                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcaCgua.....                                                           | 1                                          | 1                                                     | s02    |
| .....caCagugcuguuugugcaagua.....                                                           | 1                                          | 1                                                     | s02    |
| .....caaagugcuguuugGgcaagua.....                                                           | 1                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcaagAa.....                                                           | 1                                          | 1                                                     | s02    |
| .....caaagGgcuguuugugcaagua.....                                                           | 11                                         | 1                                                     | s02    |
| .....caaagAgcuguuugugcaagua.....                                                           | 2                                          | 1                                                     | s02    |
| .....Aaaagugcuguuugugcaagua.....                                                           | 1                                          | 1                                                     | s02    |
| .....caaagCgcuguuugugcaagua.....                                                           | 1                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcCagua.....                                                           | 2                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcaagua.....                                                           | 327                                        | 0                                                     | s02    |
| .....caGagugcuguuugugcaagua.....                                                           | 1                                          | 1                                                     | s02    |
| .....cGaagugcuguuugugcaagua.....                                                           | 1                                          | 1                                                     | s02    |
| .....caaNgugcuguuugugcaagua.....                                                           | 4                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcaGgua.....                                                           | 3                                          | 1                                                     | s02    |
| .....caaagugcuguuugCgcaaguaag.....                                                         | 2                                          | 1                                                     | s02    |
| .....caaagugcuguAugugcaaguaag.....                                                         | 1                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcaagCag.....                                                          | 2                                          | 1                                                     | s02    |
| .....caaagugcuguuugugcaagGag.....                                                          | 6                                          | 1                                                     | s02    |

## Mature

## Star

|                      |                            |                    |                       |                                |     |  |  |
|----------------------|----------------------------|--------------------|-----------------------|--------------------------------|-----|--|--|
| ucauuuugcccccugguguc | caaagugcuguuuugugcaaguag   | uaaaacucaucagaccua | cugcaaaaccagcauuuucug | acucauaaggugcaccacucagccgguucc |     |  |  |
| .....                | caaagUlcuguuuugugcaaguag   | .....              | 1                     | 1                              | s02 |  |  |
| .....                | caaagUGuguuuugugcaaguag    | .....              | 1                     | 1                              | s02 |  |  |
| .....                | caaAUgucuguuuugugcaaguag   | .....              | 1                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugcCaguag   | .....              | 7                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuUGgcaaguag    | .....              | 4                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugGaaaguag  | .....              | 2                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugcaUguag   | .....              | 1                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugAaaguag   | .....              | 2                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugcaaAuag   | .....              | 1                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugcaaguaC   | .....              | 2                     | 1                              | s02 |  |  |
| .....                | caaagugAuguuugugcaaguag    | .....              | 1                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugcaaguaA   | .....              | 6                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuUGugcaaguag   | .....              | 3                     | 1                              | s02 |  |  |
| .....                | caaagAgcuguuuugugcaaguag   | .....              | 4                     | 1                              | s02 |  |  |
| .....                | Aaaagugcuguuuugugcaaguag   | .....              | 4                     | 1                              | s02 |  |  |
| .....                | caCagugcuguuuugugcaaguag   | .....              | 3                     | 1                              | s02 |  |  |
| .....                | caaGgugcuguuuugugcaaguag   | .....              | 4                     | 1                              | s02 |  |  |
| .....                | cGaaugugcuguuuugugcaaguag  | .....              | 2                     | 1                              | s02 |  |  |
| .....                | caaUgugcuguuuugugcaaguag   | .....              | 2                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugcaaguaU   | .....              | 11                    | 1                              | s02 |  |  |
| .....                | caaagugcUGuguuuugugcaaguag | .....              | 2                     | 1                              | s02 |  |  |
| .....                | caaagGgcuguuuugugcaaguag   | .....              | 21                    | 1                              | s02 |  |  |
| .....                | cUaagugcuguuuugugcaaguag   | .....              | 1                     | 1                              | s02 |  |  |
| .....                | cCaagugcuguuuugugcaaguag   | .....              | 1                     | 1                              | s02 |  |  |
| .....                | caaagCgcuguuuugugcaaguag   | .....              | 3                     | 1                              | s02 |  |  |
| .....                | caaagugUuguuuugugcaaguag   | .....              | 1                     | 1                              | s02 |  |  |
| .....                | caaCGugcuguuuugugcaaguag   | .....              | 1                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugcaagAag   | .....              | 3                     | 1                              | s02 |  |  |
| .....                | caaNgugcuguuuugugcaaguag   | .....              | 3                     | 1                              | s02 |  |  |
| .....                | caaagugcUGcuugugcaaguag    | .....              | 2                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugcaGguag   | .....              | 4                     | 1                              | s02 |  |  |
| .....                | caaagugcGguuuugugcaaguag   | .....              | 1                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuUugcaaguag    | .....              | 2                     | 1                              | s02 |  |  |
| .....                | caaagugcuguCugugcaaguag    | .....              | 1                     | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugcaaguag   | .....              | 1083                  | 0                              | s02 |  |  |
| .....                | caaagugcuguuuugugcaaguaga  | .....              | 2                     | 0                              | s02 |  |  |
| .....                | caaagugcuguuuugugcaaguagU  | .....              | 12                    | 1                              | s02 |  |  |
| .....                | caaagugcuguuuugugcaaguagC  | .....              | 5                     | 1                              | s02 |  |  |
| .....                | aaCGugcuguuuugugcaagua     | .....              | 1                     | 1                              | s02 |  |  |
| .....                | aaagugcuguuuugugcaagua     | .....              | 3                     | 0                              | s02 |  |  |
| .....                | aaagugcuguuuugugcaaguag    | .....              | 11                    | 0                              | s02 |  |  |
| .....                | aaagugcuguuuugugcaaguaga   | .....              | 1                     | 0                              | s02 |  |  |
| .....                | aagugcuguuuugugcaaguaga    | .....              | 1                     | 0                              | s02 |  |  |
| .....                | aagugcuguuuugugcaaguagau   | .....              | 3                     | 0                              | s02 |  |  |
| .....                | agugcuguuuugugcaaguaga     | .....              | 1                     | 0                              | s02 |  |  |
| .....                | acugcaaaaccagcauuuucu      | .....              | 3                     | 0                              | s02 |  |  |
| .....                | acugcaaaaccagcUuuuucug     | .....              | 1                     | 1                              | s02 |  |  |
| .....                | acugcaaaaccagcauuuucug     | .....              | 31                    | 0                              | s02 |  |  |
| .....                | acugcaaaaccagcauuuucuga    | .....              | 12                    | 0                              | s02 |  |  |
| .....                | acugcaaaaccagcUuuuucuga    | .....              | 1                     | 1                              | s02 |  |  |
| .....                | cugcaaaaccagcauuuucu       | .....              | 5                     | 0                              | s02 |  |  |
| .....                | cugcaaaaccagcauuuucug      | .....              | 12                    | 0                              | s02 |  |  |
| .....                | cugcaaaacGagcauuuucuga     | .....              | 2                     | 1                              | s02 |  |  |
| .....                | cNgcaaaaccagcauuuucuga     | .....              | 1                     | 1                              | s02 |  |  |
| .....                | cugcaaaaccagcauuuucuga     | .....              | 214                   | 0                              | s02 |  |  |
| .....                | cugNaaaaccagcauuuucuga     | .....              | 1                     | 1                              | s02 |  |  |
| .....                | cugcaGaaccagcauuuucuga     | .....              | 2                     | 1                              | s02 |  |  |
| .....                | cugcaaaaccagcauuuucugU     | .....              | 6                     | 1                              | s02 |  |  |
| .....                | cugcCaaaccagcauuuucuga     | .....              | 1                     | 1                              | s02 |  |  |
| .....                | cugcaaaaccagAuuuucuga      | .....              | 1                     | 1                              | s02 |  |  |
| .....                | cugcaaaaUcagcauuuucuga     | .....              | 1                     | 1                              | s02 |  |  |
| .....                | cugUaaaaccagcauuuucuga     | .....              | 1                     | 1                              | s02 |  |  |
| .....                | cugcaaaacAagcauuuucuga     | .....              | 1                     | 1                              | s02 |  |  |
| .....                | ccaaagugcuguuuugugcaag     | .....              | 1                     | 0                              | s01 |  |  |
| .....                | Aaaagugcuguuuugugcaa       | .....              | 1                     | 1                              | s01 |  |  |
| .....                | caaagugcuguuuugugGaaag     | .....              | 1                     | 1                              | s01 |  |  |
| .....                | caaagugcuguuuugugcaag      | .....              | 4                     | 0                              | s01 |  |  |
| .....                | caaagugcuguuuUGgcaagu      | .....              | 1                     | 1                              | s01 |  |  |
| .....                | caaagGgcuguuuugugcaagu     | .....              | 3                     | 1                              | s01 |  |  |

## Mature

## Star

|                     |                           |                  |                       |                               |     |   |     |
|---------------------|---------------------------|------------------|-----------------------|-------------------------------|-----|---|-----|
| ucuuuauugcccuuguguc | caaagugcuguuuUugcaagu     | gaaacucauagaccua | cugcaaaaccagcauuuucug | acucuaaaggugcaccacucagccguucc |     |   |     |
| .....               | caaagugcuguuuUugcaagu     | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagugcuguuuUugcaagu     | .....            |                       |                               | 41  | 0 | s01 |
| .....               | caaagugAuguuugugcaagu     | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagugcuguuuugugcaagCa   | .....            |                       |                               | 2   | 1 | s01 |
| .....               | caaagugcuguuuugugcaGgua   | .....            |                       |                               | 2   | 1 | s01 |
| .....               | caaagAgcuguuuugugcaagua   | .....            |                       |                               | 2   | 1 | s01 |
| .....               | caUagugcuguuuugugcaagua   | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagugcuguuuugugcaagua   | .....            |                       |                               | 192 | 0 | s01 |
| .....               | caaagGgcuguuuugugcaagua   | .....            |                       |                               | 6   | 1 | s01 |
| .....               | Aaaagugcuguuuugugcaagua   | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagugcuguuuUugcaagua    | .....            |                       |                               | 2   | 1 | s01 |
| .....               | caaagugcuguuuugugcaagCa   | .....            |                       |                               | 2   | 1 | s01 |
| .....               | caaagugcuguuuugGgaagua    | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaGgugcuguuuugugcaagua   | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaUgugcuguuuugugcaaguag  | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagugcugCuugugcaaguag   | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagugcuguuuugugcaagCag  | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagugcuguuuugugcCaguag  | .....            |                       |                               | 3   | 1 | s01 |
| .....               | caaagugcuguuuugugcaagAag  | .....            |                       |                               | 2   | 1 | s01 |
| .....               | caaagugcuguuuugugcaagUCg  | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagAgcuguuuugugcaaguag  | .....            |                       |                               | 4   | 1 | s01 |
| .....               | caaagugcuguuuugugcaaguag  | .....            |                       |                               | 541 | 0 | s01 |
| .....               | Aaaagugcuguuuugugcaaguag  | .....            |                       |                               | 3   | 1 | s01 |
| .....               | caaagGgcuguuuugugcaaguag  | .....            |                       |                               | 20  | 1 | s01 |
| .....               | caaagugcuguuuugugcGaguag  | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caCagugcuguuuugugcaaguag  | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagugcuguuuugGgaaguag   | .....            |                       |                               | 6   | 1 | s01 |
| .....               | caaagugcuguuuUugcaaguag   | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagugcugAuugugcaaguag   | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagugcuguuuugugcaagGag  | .....            |                       |                               | 4   | 1 | s01 |
| .....               | caaagugcuguuuugugcaaguaA  | .....            |                       |                               | 3   | 1 | s01 |
| .....               | caaagugcuguCuugugcaaguag  | .....            |                       |                               | 1   | 1 | s01 |
| .....               | caaagugcuguuuugugcaaguaU  | .....            |                       |                               | 6   | 1 | s01 |
| .....               | caaagugcuguuuugugcaGguag  | .....            |                       |                               | 2   | 1 | s01 |
| .....               | caaagugcuguuuugugcaaguaAa | .....            |                       |                               | 2   | 1 | s01 |
| .....               | caaagugcuguuuugugcaaguagU | .....            |                       |                               | 10  | 1 | s01 |
| .....               | caaagugcuguuuugugcaaguaga | .....            |                       |                               | 4   | 0 | s01 |
| .....               | caaagugcuguuuugugcaaguagC | .....            |                       |                               | 1   | 1 | s01 |
| .....               | aaagugcuguuuugugcaagu     | .....            |                       |                               | 2   | 0 | s01 |
| .....               | aaagAgcuguuuugugcaagu     | .....            |                       |                               | 1   | 1 | s01 |
| .....               | aaagugcuguuuugugcaagua    | .....            |                       |                               | 5   | 0 | s01 |
| .....               | aaagugcuguuuugugcaaguaA   | .....            |                       |                               | 1   | 1 | s01 |
| .....               | aaagugcuguuuugugcaaguag   | .....            |                       |                               | 22  | 0 | s01 |
| .....               | aaagugcuguuUCgugcaaguag   | .....            |                       |                               | 1   | 1 | s01 |
| .....               | aaagAgcuguuuugugcaaguag   | .....            |                       |                               | 1   | 1 | s01 |
| .....               | aaagugcuguuuugugcaaguaga  | .....            |                       |                               | 5   | 0 | s01 |
| .....               | aagugcuguuuugugcaaguag    | .....            |                       |                               | 1   | 0 | s01 |
| .....               | aagugcuguuuugugcaaguaga   | .....            |                       |                               | 2   | 0 | s01 |
| .....               | acugcaaaaccagcauuuucu     | .....            |                       |                               | 4   | 0 | s01 |
| .....               | acugcaaaaccagcCuuuucug    | .....            |                       |                               | 1   | 1 | s01 |
| .....               | acugcaaaaccagcauuuucug    | .....            |                       |                               | 29  | 0 | s01 |
| .....               | acugcaaaaccagcaCuuuucug   | .....            |                       |                               | 1   | 1 | s01 |
| .....               | acugcaaaaccagcauuuucuga   | .....            |                       |                               | 8   | 0 | s01 |
| .....               | cugcaaaaccagcauuuucu      | .....            |                       |                               | 6   | 0 | s01 |
| .....               | cugcaaaaccagcauuuucug     | .....            |                       |                               | 10  | 0 | s01 |
| .....               | cugcaaaGccagcauuuucug     | .....            |                       |                               | 1   | 1 | s01 |
| .....               | cugcaaaaccagcauuuucAga    | .....            |                       |                               | 1   | 1 | s01 |
| .....               | cugcaaaaccagcauuuuUuga    | .....            |                       |                               | 1   | 1 | s01 |
| .....               | cugcaaaaccagGauuuucuga    | .....            |                       |                               | 2   | 1 | s01 |
| .....               | cugcCaaaccagcauuuucuga    | .....            |                       |                               | 1   | 1 | s01 |
| .....               | cugcaaaaccagcauuuucugU    | .....            |                       |                               | 2   | 1 | s01 |
| .....               | cugcaaaaccagcauuuucuga    | .....            |                       |                               | 117 | 0 | s01 |
| .....               | cugcaaaaccagcauuuucugaA   | .....            |                       |                               | 1   | 1 | s01 |
| .....               | ugcaaaaccagcauuuucug      | .....            |                       |                               | 1   | 0 | s01 |