

(a)

```

Misalignment:           1           11           21           31
Reference Sequence: AACAAGCTCTTTCTTTCTCTCTGTTTTAAGATCT
                      |       | | | | | | | |
Sequencing Read:  -----AACAAGCTCTTAAGATCT

```

(b)

Misalignment with soft-clipping:
Reference Sequence: AACAAAGCTCTTTCTTTCTCTCTGTTTTAAGATCT
Sequencing Read: AACAAAGCTCTTTCTTTCTCTCTGTTTTAAGATCT

(c)

```

Correct alignment:
Reference Sequence:  AACAAGCTCTTTCTTTCTCTCTGTTTTAAGATCT
                    ||| ||| ||| ||| ||| ||| ||| ||| |||
Sequencing Read:    AACAAGCTC-----TTAAGATCT

```

Figure 1