| CIGAR OP. E       | xample seq./CIGAR                                    | <b>PyBamView</b>                            |
|-------------------|--|---|
| M (aln. match)    | TGGCCCCT<br>8M                                       | T G G C C C T                               |
| I (insertion)     | TTCGGTCT 3M2I3M                                      | T T C G G T C T                             |
| D (deletion)      | CGCCGC<br>5M2D1M                                     | C G C C G C C C                             |
| N (skipped)       | TTCCAT 5M2N1M  | T T C C A A C T                             |
| S (soft clip)     | CGCAGATGGCG<br>3S8M                                  | A G A T G G C G                             |
| H (hard clip)     | TCCCCTTC<br>3H8M                                     | T C C C C T T C                             |
| = (seq. match)    | ACGGCTTG<br>8=                                       | ACGGCTTG                                    |
| X (seq. mismatch) | TACCACGG<br>6=2X                                     | T A C C A C T C                             |
| P (padding)       | ACCACC  3M2P3M  ACCTACC  3M1I1P3M  ACCGACC  3M1P1I3M | A C C A C C A C C * * A C C A C C * G A C C |