

pancontig consensus sequence

1 2 3 4 5 6 7 8 9 10 11 12
ATGTCTTCAATC...

1 2 3 4 5 6 7 8 9 10 11 12
- - - ATGTCTT - CAATC...

1 2 3 4 5 6 7 8 9 10 11 12
- - - ATATCTT - CAGTC...

1 2 3 4 5 6 7 8 9 10 11 12
- TT - ATATCTT - CAGTC...

1 2 3 4 5 6 7 8 9 10 11 12
- TT - ATATC - - - CAGTC...

gap position gap length

gaps:{"0":4, "7":1, ...}

position

mutated nucleotide

mutate:[3,"A"], [10,"G"], ...]

gap starting at

insertion position
(from gap start)

insert:[0,1], "TT", ...]

deletion start

inserted sequence

delete:[6,2], ...]

deletion length

alignment sequence