

Reference CCCTACGCCTTGACCCGCTTTCCTGCGTCTCTCAGCCTACCTGACCTTGTCTTTAC

Read 2

Position 12345678

Read 1 = Read 2

Position 3

Consensus: G BQ_{cons:} BQ_{r1}+BQ_{r2} $BQ_{r1} > BQ_{r2}$

Consensus: T BQ_{cons}: BQ_{r1}-(BQ_{r2}/2) Read 1 ≠ Read 2

Position 6

 $BQ_{r1} < BQ_{r2}$

Consensus: C BQ_{cons} : BQ_{r2} - $(BQ_{r1}/2)$

 $BQ_{r1} = BQ_{r2}$

Consensus: C (ref) BQ_{cons}: BQ_{r1}-(BQ_{r2}/2)