

Reference

CCCTACGCCTTGACCCGCTTTCCTGCGTCTCTCAGCCTACCTGACCTT

TCGTGCGT...

Read 2

Read 1

Position

12345678

Read 1 = Read 2

Position 3

 $BQ_{r1} > BQ_{r2}$

 $BQ_{r1} < BQ_{r2}$

Read 1 ≠ Read 2

Position 6

 $BQ_{r1} = BQ_{r2}$

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

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

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