

i : 0 1 2 3 4 5 6 7 8 9

Ax : 0 0 0 1 1 1 1 1 0

X : A C C A T T C T A - - C

Y : A C G - - - - T G T T C

Ay : 0 0 0 1 1 1 1 1

j : 0 1 2 3 4 5 6 7

The diagram illustrates a sequence alignment between two sequences, Ax and Ay. The sequences are represented as rows of characters. Ax is 0 0 0 1 1 1 1 1 0 and Ay is 0 0 0 1 1 1 1 1. The alignment is shown by the corresponding characters in the rows. A red box highlights the region from index 4 to 8 of both sequences, where the characters are 1 1 1 1 1 in Ax and 1 1 1 1 1 in Ay. A green box highlights the region from index 5 to 6 of both sequences, where the characters are 1 1 in Ax and 1 1 in Ay. The alignment is perfect in the highlighted regions.