

i : 0 1 2                      3 4 5 6 7

Ax : 0 0 0                      1 1 1 1 1

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

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

Ay : 0 0 0 1 1 1 1 1                      0

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

The diagram illustrates a sequence alignment between two sequences, Ax and Ay. The sequences are represented as rows of characters, with indices i and j shown above and below the rows respectively. A red rectangular box highlights a region of matching characters between Ax and Ay, spanning from index 2 to index 7. Within this red box, a green rectangular box highlights a specific column of matching characters at index 6, where both sequences have the character 'T'.