

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 000111110 and Ay is 00011111. The alignment is shown by the overlapping of the sequences. A red box highlights the region where the sequences overlap, spanning from index 4 to index 8. A green box highlights the region where the sequences match, spanning from index 5 to index 7. The matching region is the intersection of the red and green boxes.

i	0	1	2	3	4	5	6	7	8	9
Ax	0	0	0	1	1	1	1	1	1	0
X	A	C	C	A	T	T	C	T	A	-
Y	A	C	G	-	-	-	-	T	G	T
Ay	0	0	0	1	1	1	1	1	1	