

ACGTTTACCATATA**AAAAAG**CACACACAAACCCAAA
ACGTCTCTCATATACACACACACACAC**ACAAAG**AACAA
CAAAAGCTGTGAGTGAGAGATGGAGATTTTGTAGTTGAT
CTGTGAGTTTTTTTGTATGGAG**CCAAAG**TTTTTTAGTTGA

The diagram illustrates a sequence alignment between four DNA sequences. The sequences are arranged in four rows. Four specific regions are highlighted with gray boxes: 'AAAAAG' in the first row, 'ACAAAG' in the second row, 'CAAAAG' in the third row, and 'CCAAAG' in the fourth row. Black lines connect these highlighted regions across the rows, indicating matches or gaps in the alignment. The connections are as follows: a line from the first 'AAAAAG' box to the second 'ACAAAG' box, a line from the first 'AAAAAG' box to the third 'CAAAAG' box, a line from the second 'ACAAAG' box to the fourth 'CCAAAG' box, and a line from the third 'CAAAAG' box to the fourth 'CCAAAG' box. Additionally, there is a line from the first 'AAAAAG' box to the fourth 'CCAAAG' box, and a line from the second 'ACAAAG' box to the third 'CAAAAG' box.