

$P \left( \begin{array}{c} \text{ATTGAA} \\ \text{TTTCAT} \\ \text{A-TCG-T} \\ \text{A-TCGAT} \\ \text{-TTGGAT} \end{array} \middle| \begin{array}{c} \text{[Diagram]} \\ \text{[Diagram]} \\ \text{[Diagram]} \\ \text{[Diagram]} \end{array}, b, \theta \right)$