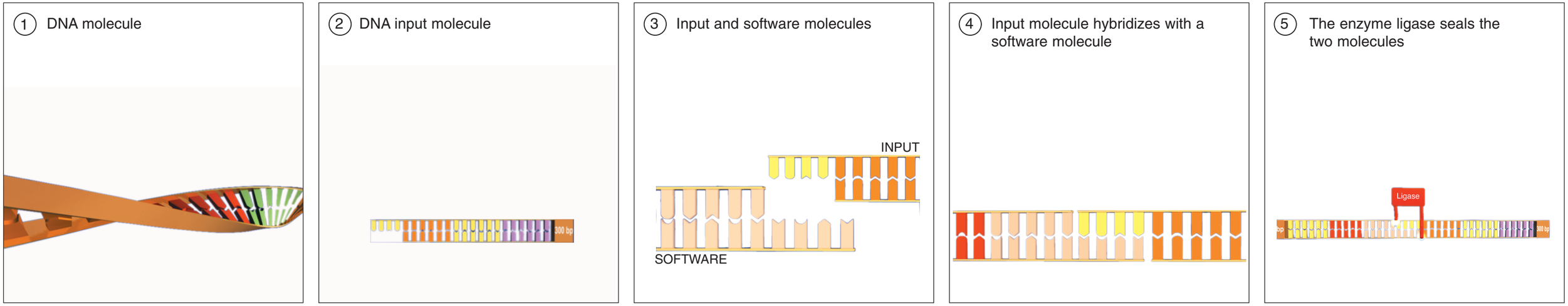
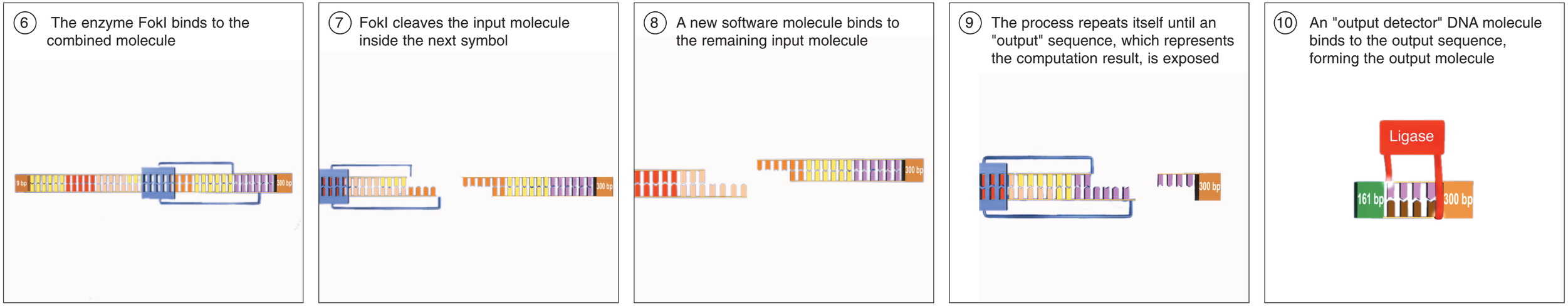

1 DNA molecule
2 DNA input molecule
300 bp
3 Input and software molecules
INPUT
SOFTWARE
4 Input molecule hybridizes with a software molecule
5 The enzyme ligase seals the two molecules
Ligase
300 bp


6 The enzyme FokI binds to the combined molecule
9 bp
300 bp
7 FokI cleaves the input molecule inside the next symbol
300 bp
8 A new software molecule binds to the remaining input molecule
300 bp
9 The process repeats itself until an "output" sequence, which represents the computation result, is exposed
300 bp
10 An "output detector" DNA molecule binds to the output sequence, forming the output molecule
Ligase
161 bp
300 bp