

Solutions

Each answer shows the steps, then the **result**.

2.1

- RNA polymerase

2.2

- mRNA 5'-AUGC-3'

2.3

- Introns

3.1 B

- introns

3.2

(a)

- Any two: adding a 5' cap, adding a poly-A tail, splicing out introns

(b)

- Exons are the coding parts kept in the mRNA; introns are non-coding parts spliced out

3.3

- Processing (cap, tail, splicing) stabilizes the mRNA and removes non-coding introns, so the mature mRNA can be exported and correctly translated