

What is the first step in the creation of cDNA from an mRNA transcript?

- A amplification of the mRNA
- B cutting the mRNA with restriction enzymes
- C heating the mRNA
- D reverse transcription of the mRNA

Reverse transcription creates a single-stranded DNA from an mRNA. Enzymes then separate the single-stranded cDNA from the mRNA transcript and synthesize a complementary DNA strand. The result is a DNA copy of the mature mRNA transcript, a double-stranded cDNA.

Answer **D**.