MiRXES
TO KNOW IS TO ACT

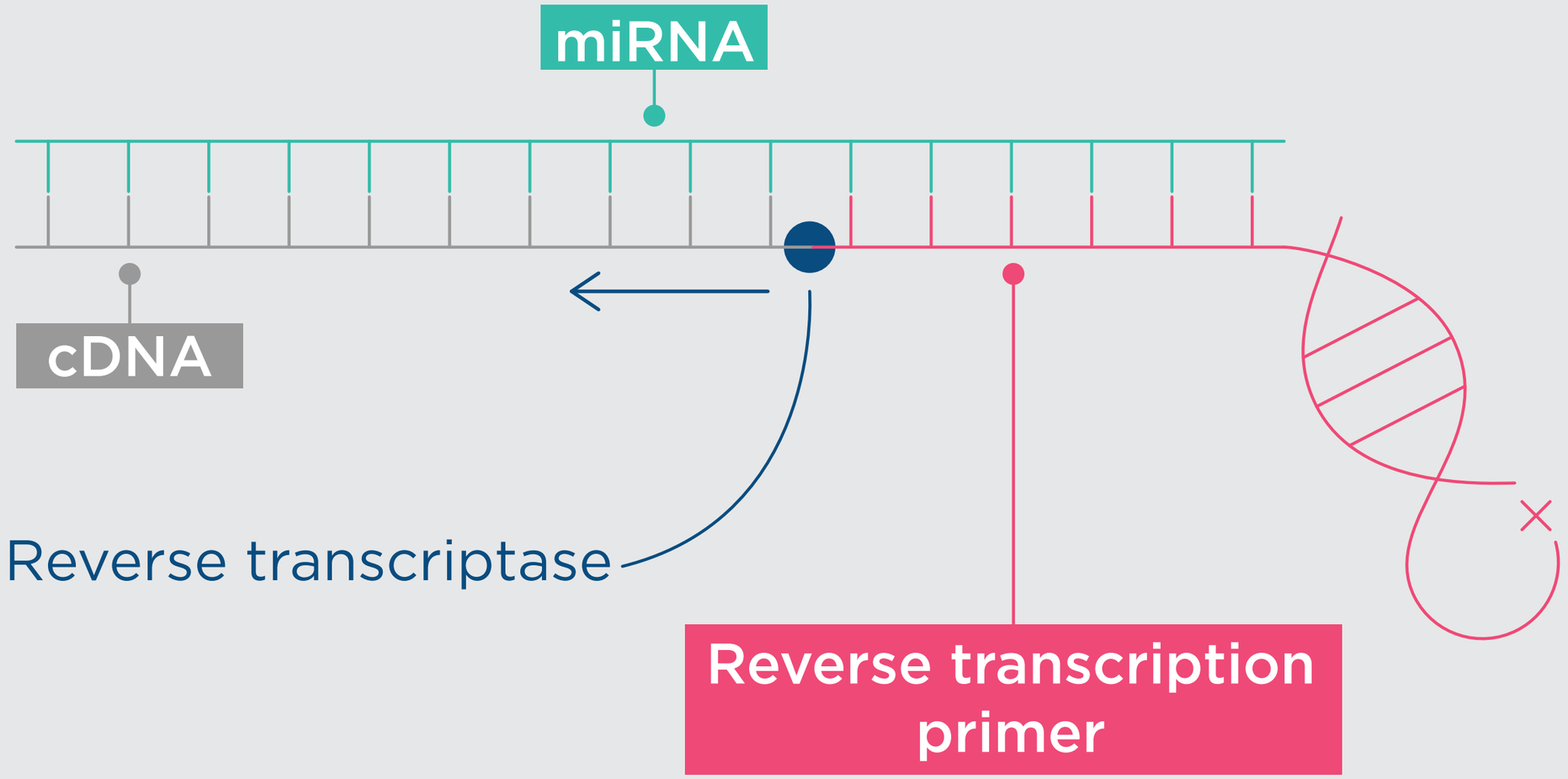
THREE PRIMERS IN ONE ID3EAL miRNA DETECTION SOLUTION

Despite their critical role, miRNAs are **difficult to detect** because of their small size, low abundance and high sequence similarities.

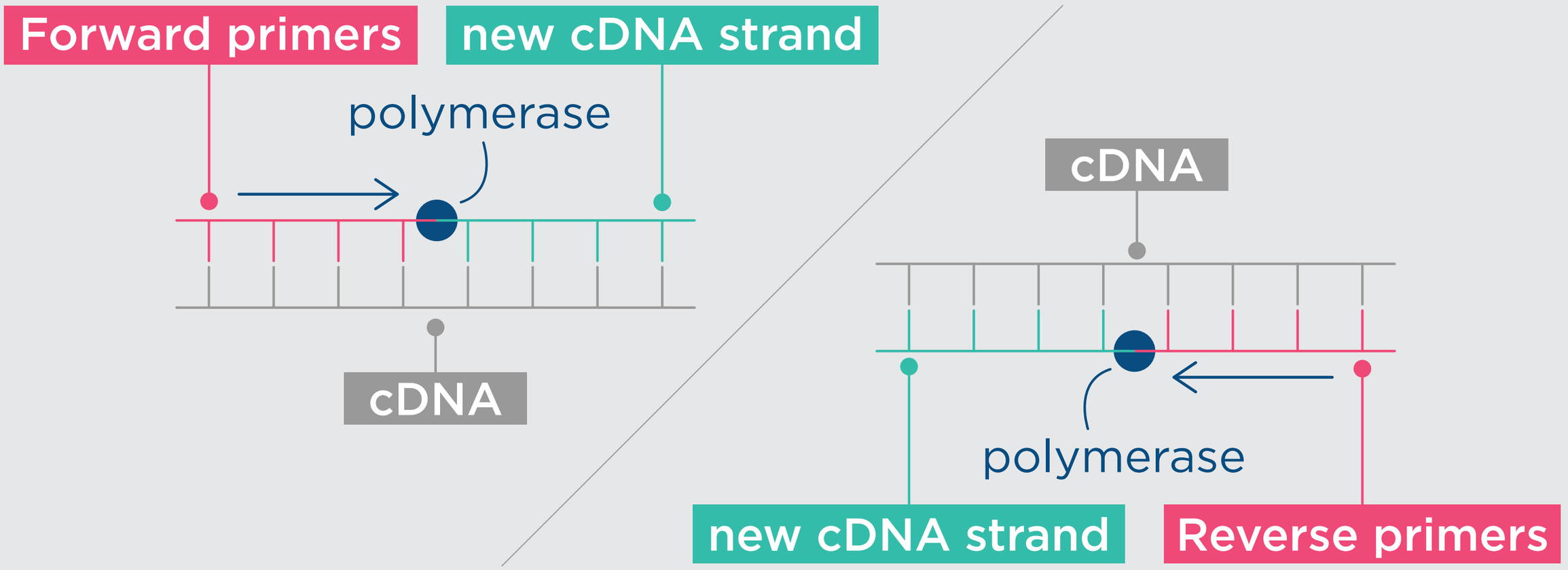
Using just **three primers**, MiRXES' ID3EAL miRNA quantitative PCR solution (qPCR) is revolutionizing miRNA detection.

How it works

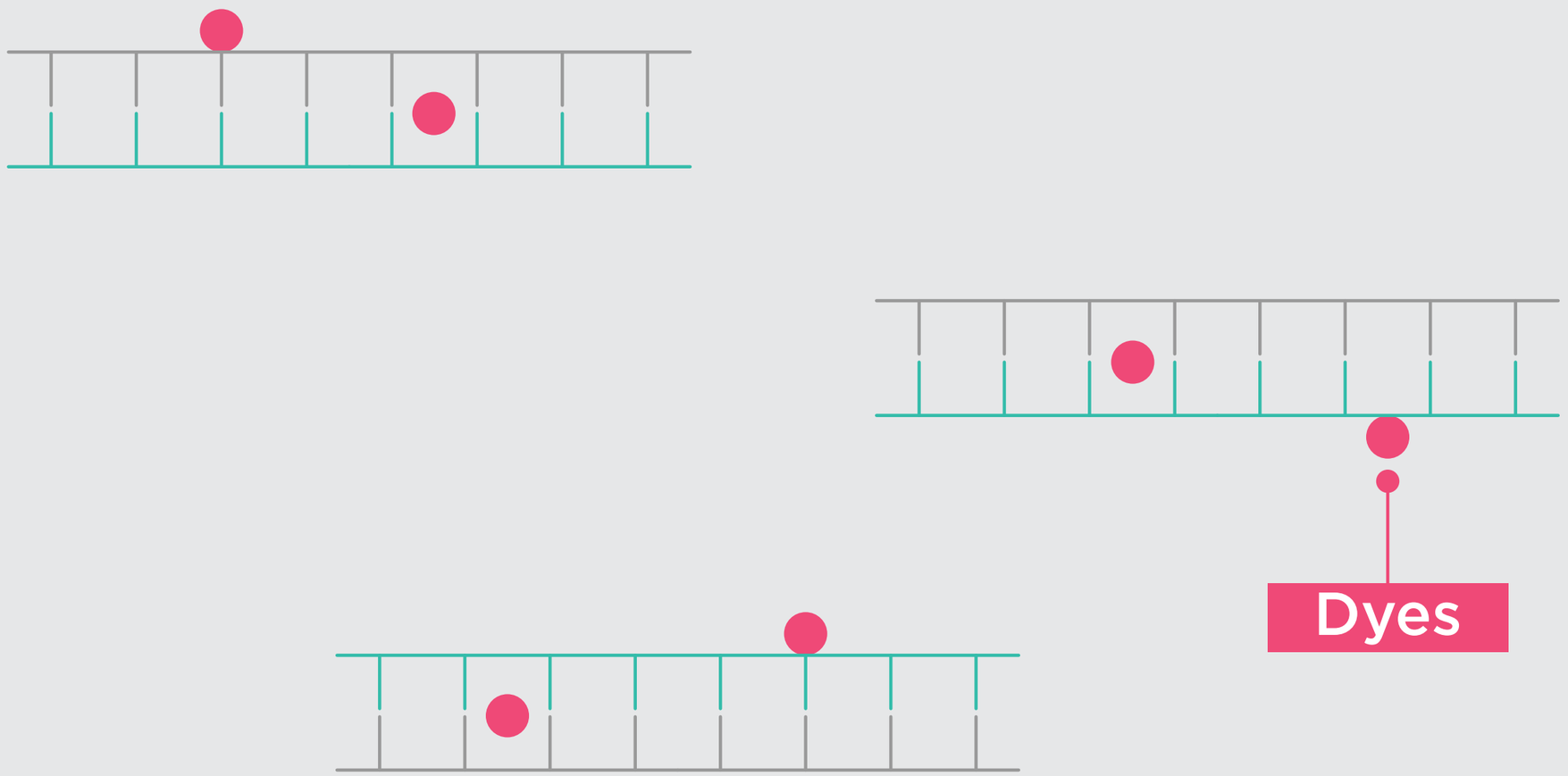
1 With its unique and stable stem-loop structure, our **reverse transcription primer** accurately binds to the mature target miRNA. The miRNA is then reverse transcribed to create complementary DNA (cDNA).



2 **qPCR forward and reverse primers** complementary to the beginning and end of the resulting cDNA are added. This allows for the specific and robust amplification of the nested region during qPCR.



3 The amplified cDNA is detected and quantified by **adding intercalating dyes** that nestle in between the DNA bases.



What makes it work

Specificity

All three primers are **unique** to the target miRNA, allowing them to distinguish between highly similar sequences.

Sensitivity

The optimized primers and qPCR reagents can efficiently **detect and amplify** miRNAs even from low input samples.

Speed

With its simple workflow,
the whole process takes just
two hours from start to finish.