

ZipScript™ One-Step RT-qPCR Mix

Key benefits

- Broad detection range — Detects over 7 orders of magnitude with high sensitivity (<1 pg total human RNA).
- Superior multiplexing — Amplify up to 4 targets per reaction.
- Market-leading performance — Delivers superior sensitivity, reproducibility, and efficiency versus industry-leading formulations.
- Reliable throughput — Designed for high-throughput labs, with easy-to-use protocols, automation compatibility, and accurate results.
- Backed by quality — Lot-to-lot consistency minimizes inter-assay variability and ensures reliable, reproducible data.

ZipScript One-Step RT-qPCR Mix delivers high-efficiency RNA-dependent multiplex qPCR for a broad range of targets. This powerful formulation combines an RNase H-minus reverse transcriptase with a fast-activating hot-start DNA polymerase and comes with a dNTP-containing reaction buffer.

With the ability to detect as little as 0.1 pg of RNA and multiplex up to five targets per tube, ZipScript offers both sensitivity and flexibility in a convenient one-step reaction format (Figure 1).

ZipScript One-Step RT-qPCR Mix is powered by EnzScript™ Reverse Transcriptase and Phoenix™ Hot Start Taq DNA Polymerase. EnzScript is a robust, RNA-dependent DNA polymerase with no detectable RNase H activity, optimized for first-strand cDNA synthesis from mRNA or total RNA at temperatures between 42–50°C. Phoenix Polymerase is a recombinant, thermostable Taq DNA polymerase paired with a thermolabile, neutralizing antibody. This fast-activating, antibody-mediated hot-start capability enhances specificity, sensitivity and yield by minimizing nonspecific amplification and primer-dimer formation before cycling. Together, EnzScript and Phoenix form ZipScript – an exceptionally sensitive and reliable one-step RT-qPCR mix.

With a strong track record in commercial enzyme manufacturing, we delivers analytical-grade quality in every product, meeting the most rigorous specifications.

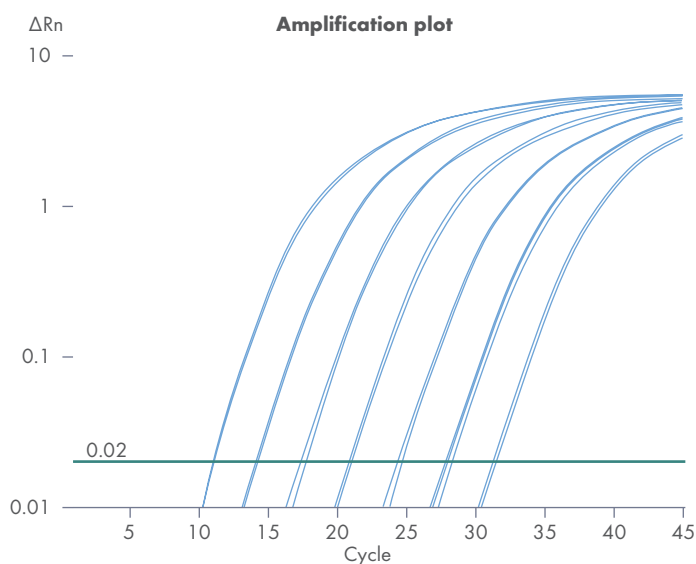


Figure 1

Real-time GAPDH amplification curves demonstrate reliable detection across universal human RNA inputs from 500 ng down to 0.5 pg.

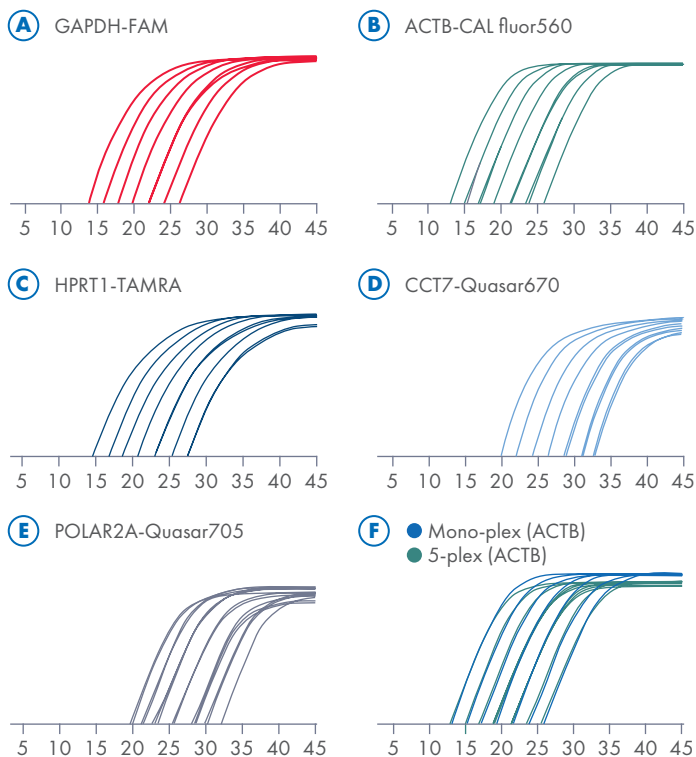


Figure 2

The superior multiplexing capability of the ZipScript formulation is demonstrated in a 5-plex assay with seven 4-fold serial dilutions per target, starting from 50 ng total RNA. Results show no Ct shift and no significant loss of amplitude or efficiency when compared to the same target run in a mono-plex assay (Figure 2F).

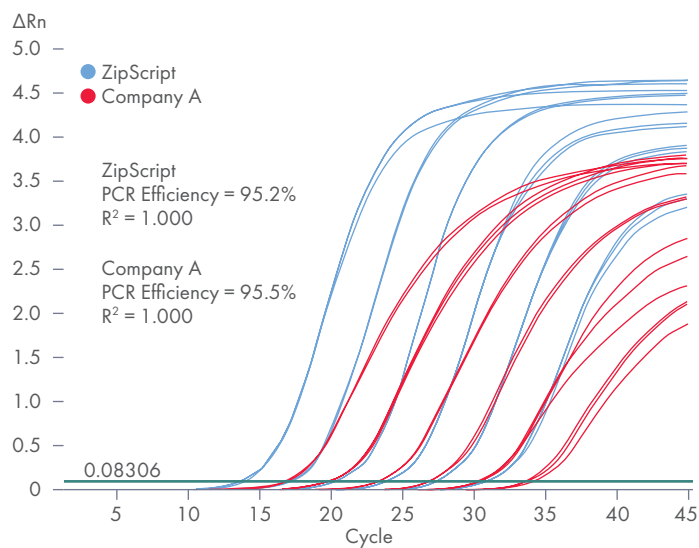


Figure 3

ZipScript delivers higher sensitivity and stronger fluorescence signals compared to a market-leading one-step qRT-PCR formulation. Shown is an LDHA assay using universal human RNA as template, with input ranging from 500 ng down to 0.5 ng.

Ordering Information

Product	Contents	Cat. no.
ZipScript One-Step RT-qPCR Kit (1000 reactions)	For 1000 reactions: 25x ZipScript Enzyme Mix (1 x 0.80 mL) and 2x ZipScript Reaction Buffer I (8 x 1.5 mL)	P7640L



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