

From cell lysate to gene expression data using 1-step RT-qPCR



Skip RNA purification and combine RT-qPCR into a single streamlined workflow

The Invitrogen™ TaqMan™ Cells-to-CT™ Express 1-Step Kit enables direct amplification from cell lysates, eliminating the RNA purification step while combining reverse transcription (RT) and real-time, quantitative PCR (qPCR) into one step. Accelerate gene expression analysis with reliable performance, minimal hands-on time, and results you can trust.

Key benefits



Fast—96 samples ready for RT-qPCR in ~5 minutes



Sensitive—equivalent or better sensitivity compared with manual purified RNA

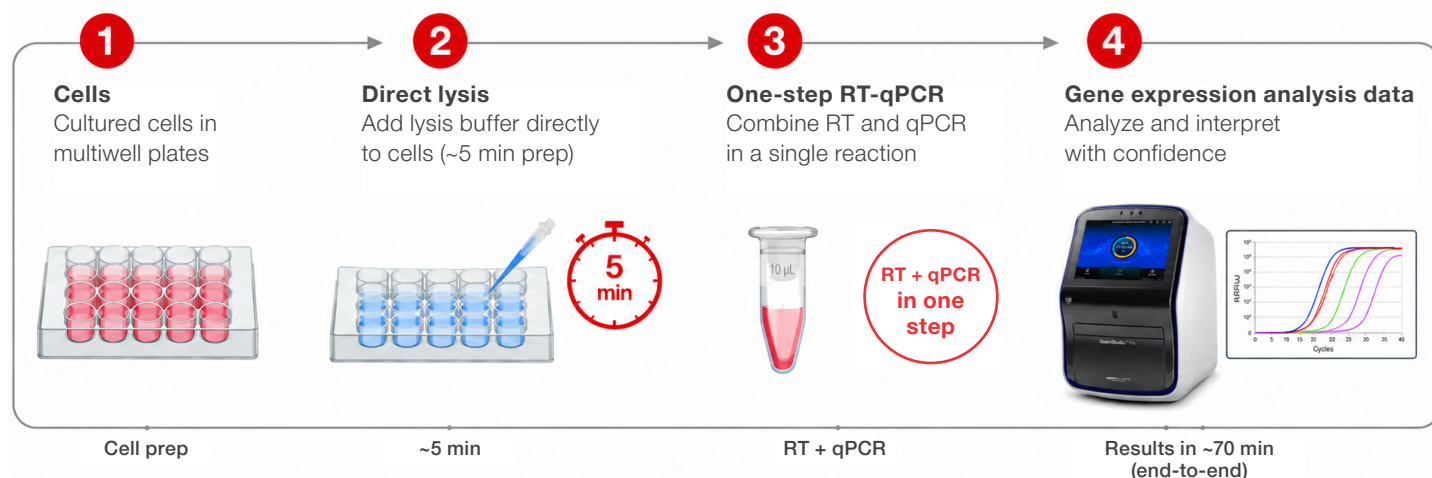


Simple—one-step RT-qPCR workflow, no RNA purification



Reliable—pre-optimized chemistry for consistent results

Workflow



invitrogen



Why choose TaqMan Cells-to-C_T Express 1-Step Kit?

- **Skip RNA purification**—no columns or centrifugation, helping reduce RNA loss associated with purification workflows
- **One-step RT-qPCR**—combine reverse transcription and qPCR for fewer steps and less variability
- **Fast results**—prepare samples in minutes and get results faster with less hands on time
- **Proven performance**—equivalent or better sensitivity compared to purified RNA workflows



Why choose a 1-step RT-qPCR workflow?

- An ideal choice for high-throughput sample processing
- Well-suited for analyzing targets across many samples
- No need to store intermediate cDNA
- Fewer steps and faster turnaround for gene expression analysis workflows



Designed for efficiency

- Streamlined workflow with fewer pipetting steps
- Pre-optimized reagents for accuracy and reproducibility
- Compatible with more than 700,000 Applied Biosystems™ TaqMan™ gene expression assays
- More sustainable with non-hazardous reagents and less plastic waste

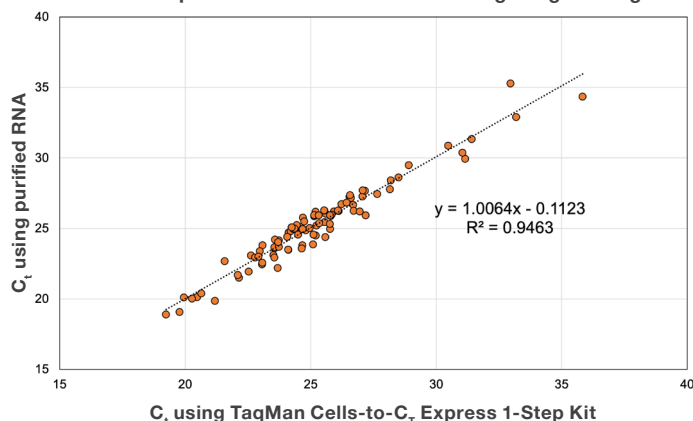


Applications

- Drug discovery screening workflows
- Gene expression screening
- Mammalian cell-based assays
- Routine RT-qPCR analysis

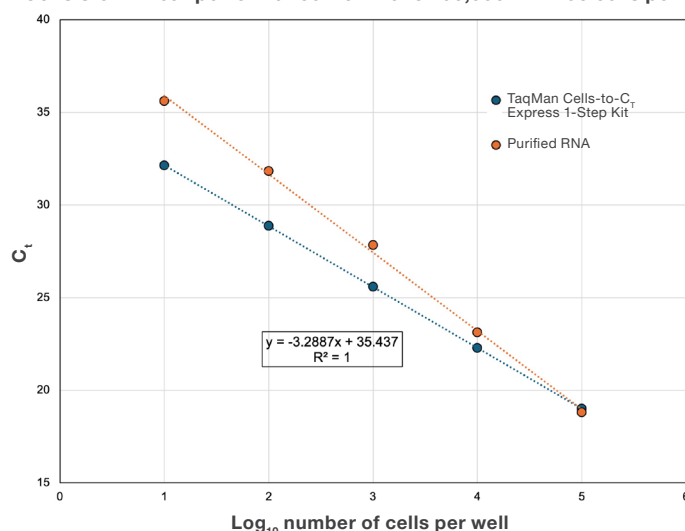
Performance data

Consistent performance across a broad range of gene targets.



Data from 96 different TaqMan Gene Expression assays compare the performance of the TaqMan Cells-to-C_T Express 1-Step Kit versus a traditional approach using spin-column purified RNA. Lysate obtained from 100,000 cells.

Consistent linear performance from 10 to 100,000 HEK293 cells per well



TaqMan Cells-to-C_T Express 1-Step Kit delivers highly linear detection of the *PPIA* gene (assay id: Hs99999904_m1) across a broad range of cervical carcinoma cell inputs with lower C_T values compared to RNA purified using a traditional spin-column extraction method.

Ordering information

Product	Quantity	Cat. No.
TaqMan Cells-to-C _T Express 1-Step Kit	40 reactions	A65794
	100 reactions	A65795
	400 reactions	A65796
	2,500 reactions	A65797

Find out how to break the RNA extraction bottleneck at thermofisher.com/cellstoc

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