

Content

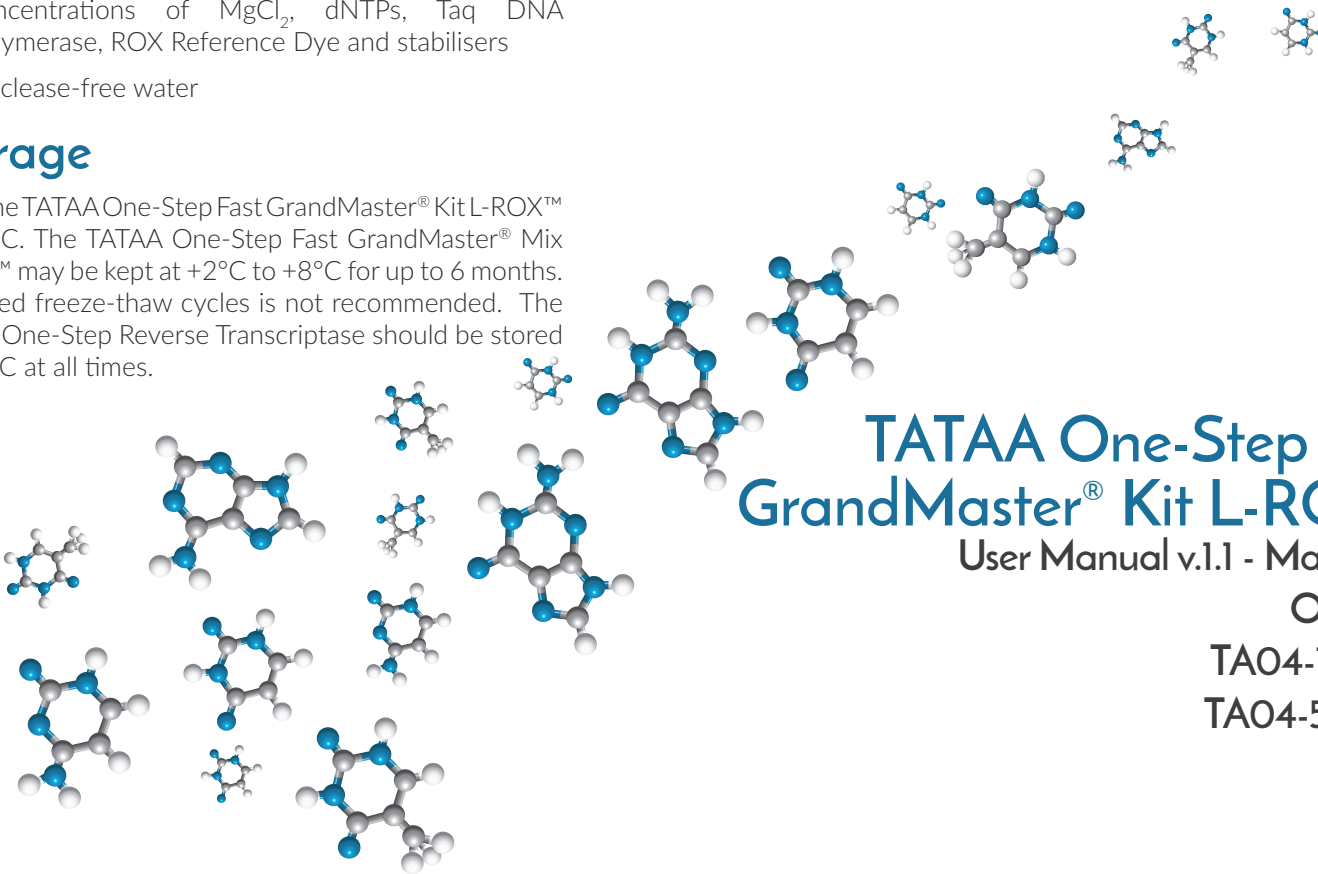
- TATAA One-Step Reverse Transcriptase (20x)
- TATAA One-Step Fast GrandMaster® Mix L-ROX™ (4x): 4x reaction buffer containing optimised concentrations of $MgCl_2$, dNTPs, Taq DNA polymerase, ROX Reference Dye and stabilisers
- Nuclease-free water

Storage

Store the TATAA One-Step Fast GrandMaster® Kit L-ROX™ at $-20^{\circ}C$. The TATAA One-Step Fast GrandMaster® Mix L-ROX™ may be kept at $+2^{\circ}C$ to $+8^{\circ}C$ for up to 6 months. Repeated freeze-thaw cycles is not recommended. The TATAA One-Step Reverse Transcriptase should be stored at $-20^{\circ}C$ at all times.



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Background

The novel TATAA One-Step Fast GrandMaster® Kit L-ROX™ contains a ready-to-use fastmix and Reverse Transcriptase, and it provides all the necessary components for RT-qPCR except primers, probes and template.

Protocol

1. Thaw all components except the transcriptase, which should remain at -20°C. Mix thoroughly by gently vortexing and briefly centrifuge to collect content before use. Keep components on ice even after thawing.
2. Add the following for one reaction to a 0.2 ml thin-walled PCR tube or in a PCR plate.

TATAA One-Step Fast GrandMaster® Mix L-ROX™ (4x)	5.0µl
Nuclease free water	variable
Forward primer	variable
Reverse primer	variable
Probe	variable
RNA Template	5-10 µl
One-Step Reverse Transcriptase	1.0 µl
Final volume	20.0 µl

3. Vortex gently and centrifuge to collect content.

Note: When preparing multiple reactions, making a cocktail with all components except template is recommended to reduce pipetting errors. Prepare a slightly larger amount of master mix than required to compensate for pipetting losses.

Cycling Protocol

50°C, 5 min	cDNA synthesis
95°C, 30 s	Pre-denaturation
95°C, 3 s	Cycling
60°C, 20-30 s	Data collection

Troubleshooting

If experiencing difficulties with this product please contact the experts at TATAA technical support for help by email: info@tataa.com or phone: +46 31 761 57 00.

License information

This product is covered by US patent 5,804,375; 5,538,848; 5,723,591; 5,876,930; 6,030,787; 6,258,569; 5,338,671; 5,587,287.

The buyer is not authorised to sell or transfer the product to third party.