

Content

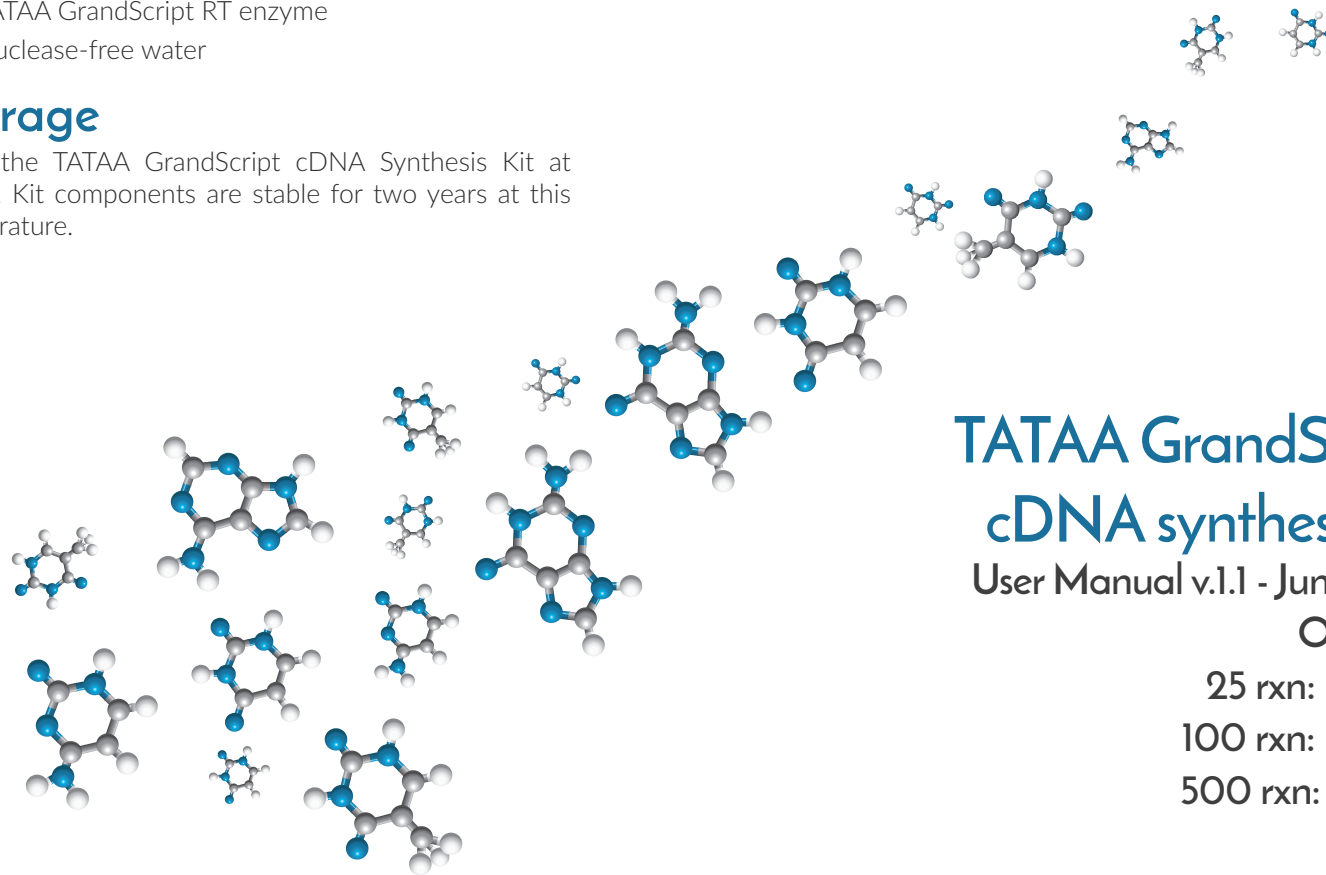
- TATAA GrandScript RT reaction mix (5x concentrated solution of optimised buffer, magnesium, oligo(dT), random primers and dNTPs)
- TATAA GrandScript RT enzyme
- Nuclease-free water

Storage

Store the TATAA GrandScript cDNA Synthesis Kit at -20°C. Kit components are stable for two years at this temperature.



tataabiocenter



TATAA GrandScript cDNA synthesis kit

User Manual v.1.1 - June 2015

Order #:

25 rxn: A103a

100 rxn: A103b

500 rxn: A103c

Background

The TATAA GrandScript cDNA Synthesis Kit is a sensitive and easy to use solution for cDNA synthesis. The novel TATAA GrandScript RT Reaction Mix provides all the necessary components for cDNA synthesis except enzyme and RNA template. The optimized mix of random and oligo(dT) primers provides a robust consistent and unbiased first strand synthesis over a broad range of RNA template concentrations. The TATAA GrandScript RT enzyme is a mixture of engineered M-MLV Reverse transcriptase and ribonuclease inhibitor protein. The resulting cDNA product is directly compatible with real-time PCR methods.

Protocol

1. Thaw all frozen components. Mix thoroughly and briefly centrifuge to collect content before use. Place all components including TATAA GrandScript RT Enzyme on ice.
2. Add the following for one reaction to a 0.2 ml thin-walled PCR tube or in a PCR plate placed on ice.

RNA (1 µg-10 pg total RNA)	variable
Nuclease free water	variable
TATAA GrandScript RT Reaction Mix (5x)	4.0 µl
TATAA GrandScript RT Enzyme	1.0 µl
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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 RNA is recommended to reduce pipetting errors. Prepare a slightly larger amount of master mix than required to compensate for pipetting losses.

Thermal Protocol

Incubate the tube(s) under the following conditions:

22°C, 5 min
42°C, 30 min
85°C, 5 min
(4°C hold)

After completion of cDNA synthesis, use 10-20% of the first-strand reaction (2-4 µl) for a 20 µl PCR reaction.

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 7470515. The buyer is not authorised to sell or transfer the product to third party.