

Content

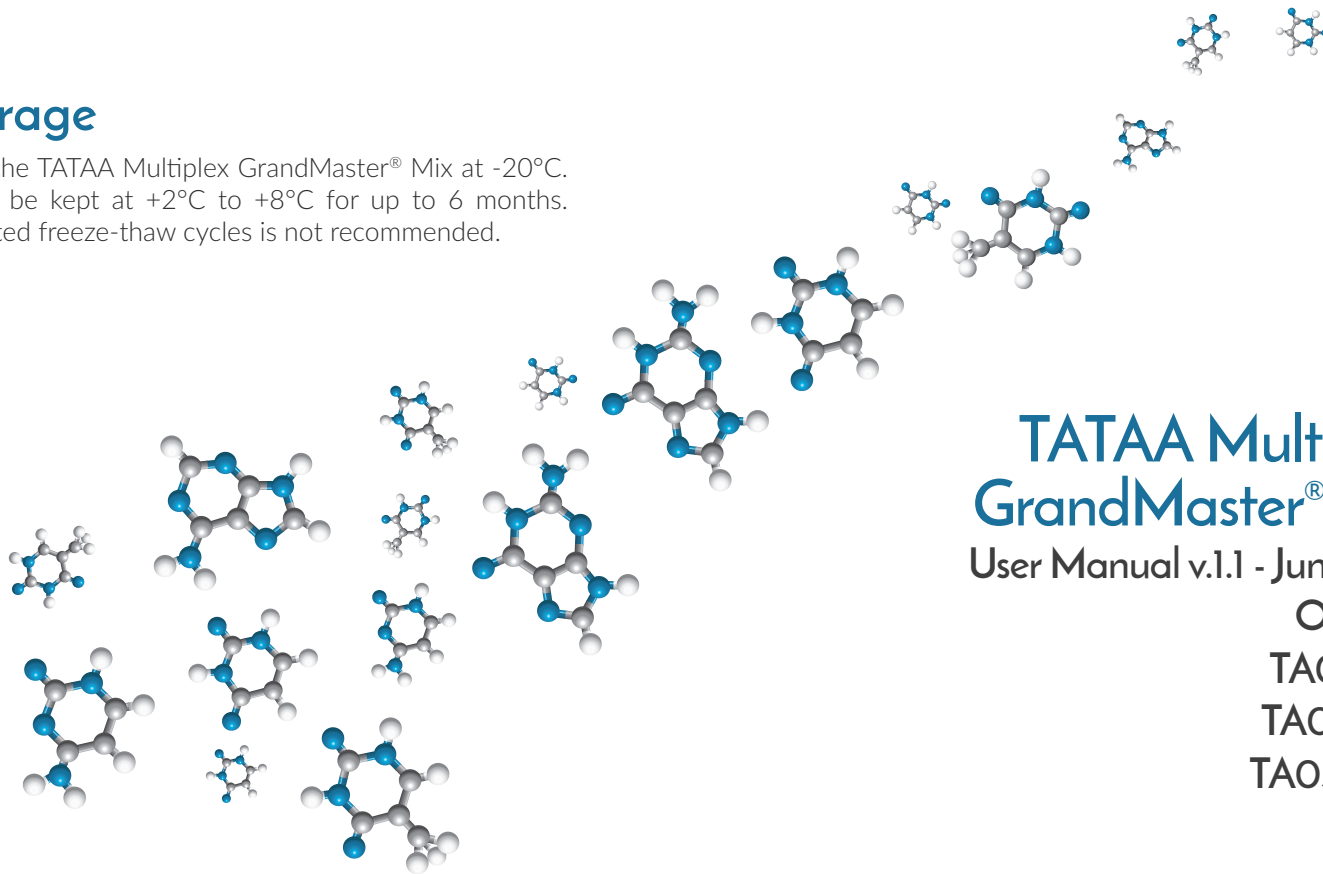
- TATAA Multiplex GrandMaster[®] Mix (2x): 2x reaction buffer containing optimised concentrations of MgCl₂, dNTPs, Taq DNA polymerase and stabilisers.



tataabiocenter

Storage

Store the TATAA Multiplex GrandMaster[®] Mix at -20°C. It may be kept at +2°C to +8°C for up to 6 months. Repeated freeze-thaw cycles is not recommended.



TATAA Multiplex GrandMaster[®] Mix

User Manual v.1.1 - June 2015

Order #:

TA03-625

TA03-1875

TA03-3750

Background

The novel TATAA Multiplex GrandMaster® Mix is a 2x concentrated ready-to-use multiplex mix, which provides all the necessary components for multiplex qPCR except primers, probes and template. Up to five targets can be multiplexed without the need of limiting or variable primer concentrations.

Protocol

1. Thaw and mix thoroughly by gently vortexing and briefly centrifuge to collect content before use.
2. Add the following for one reaction to a 0.2 ml thin-walled PCR tube or in a PCR plate.

	Volume	Final Conc.
TATAA Multiplex GrandMaster® Mix (2x)	10 µl	1x
Nuclease free water	variable	
Forward primers	variable	100-500 nM
Reverse primers	variable	100-500 nM
Probes*	variable	100-250 nM
Template (10 pg-1 µg)	variable	
Final volume	20.0 µl	

*Each probe in the multiplex assay should be labeled with unique dyes having minimal spectral overlap. Care should be taken when designing a multiplex assay, preferably use a primer design software.

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

95°C, 30 s*	Pre-denaturation
95°C, 10-15 s	Cycling
55-65°C, 60 s	Data collection

*Full activation of the Taq polymerase is achieved within 30 seconds. Longer denaturation time may be needed to denature the template. However, pre-denaturation for more than 3 minutes is usually not required.

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.