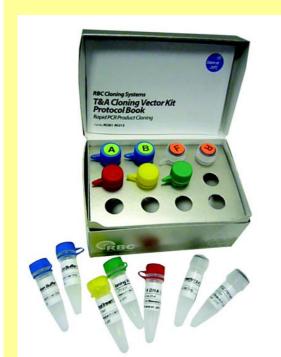


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TA Cloning Kit

Rapid and Economical Cloning



Description

RBC T&A cloning system is ideal for cloning PCR products generated using thermostable DNA polymerases which add a single terminal 3'-dA nucleotide overhang (Taq). It is extremely economical and convenient for rapid cloning. Following ligation, the mixture may be used directly to transform HIT Competent Cells $^{\text{TM}}$ or other competent cells or purified to achieve a higher efficiency of transformation. The vector is highly purified to reduce background cloning.

Applications

aCCEPTS TERMINAL 3'-dA nucleotide overhang PCR products.

Transform ligation product (purified/unpurified) into HIT Competent Cells™.

LacZ complementation for blue/white screening. Ampicillin marker for antibiotic selection. Universal primer for easy transformation screening.

Ligation Conditions

	User Sample	Positive Control
Ligation Buffer A	1 µl	1 µl
Ligation Buffer B	1 µl	1 µl
TA cloning vector	2 µl	2 µl
PCR product	ΧμΙ	****
T4 DNA Ligase	1 µl	1 µl
Control DNA	****	3 µl

Add deionized water to a final volume of 10 μ l. Incubate the reactions for 5 to 15 mins at 22 $^{\circ}\text{C}$

Cat. No. RC001 (20 reactions) TA Cloning Vector (25 ng/µl): 40 µl Control Insert DNA (10 ng/µl): 10 µl T4 DNA Ligase (3 U/µl): 20 µl T4 DNA Ligation Buffer A: 100 µl T4 DNA Ligation Buffer B: 100 µl Forward Primer(M13-F) (10 µM): 50 µl Forward Primer(M13-R) (10 µM): 50 µl

Storage Conditions

T&A Cloning Kit should be stored immediately upon receipt at -20°C in a constant temperature freezer. T&A Cloning Kit can be stored for up to 12 months without showing any deduction in performance and quality with proper storage.

Note: T&A is a rapid high quality cloning system-Following are comparison results from RBC Labs.

- 1. TA cloning system is very efficient at LIGATION with higher resulting transformation efficiency compared to company P's transformation system. T&A cloning system provides two types of ligation buffer for your convenience.
- 2. T&A cloning system high efficiency ligation takes only 20 minutes versus 1 hour to overnight for company P's system.
- 3. TA cloning system resulted in higher ACCURACY compared to company P's in colony PCR pickings.
- 4. TA cloning system shows very good effciency of cloning up to 5 kb INSERTS, while company P's system may show slightly higher effciency > 5kb.