

I. List of Components

Always store any unused product at 20–22°C, either (1) back in the original foil pouch, re-sealed with desiccant; or (2) in a desiccator.

- Titanium *Taq* SP EcoDry Premix 8-tube strips
 - NOTE:** Each tube contains lyophilized master mix with the following components:
 - Titanium *Taq* DNA Polymerase Mix (includes a hot-start antibody)
 - MgCl₂ (3.5 mM final conc.)
 - dNTP Mix
 - Reaction Buffer
 - Cryoprotectant
 - Stabilizers
- Optically Clear Cap Strips (8 caps/strip)

II. Protocol

1. Assemble a primer/template mix:

Each tube of Titanium *Taq* SP EcoDry Premix requires the addition of PCR-grade water, primers, and/or template in a total volume of 25 µl. Assemble a mix containing water, primers, and/or template with volume sufficient for the number of PCR reactions you plan to perform, plus an additional reaction to compensate for pipetting errors.

2. Reconstitute the Premix:

- a. Pipette 25 µl of the primer/template mix into each tube.
- b. Pipette up and down several times to dissolve each pellet, then cap the tubes.
- c. Briefly spin the tubes in a microcentrifuge, and begin thermal cycling using the guidelines provided below.

3. Recommended cycling parameters:

Use the following guidelines when setting up your initial experiments. These are general guidelines—the optimal parameters may vary.

Target Size	Cycling Parameters
<1 kb	95°C for 1 min
	25–35 cycles:
	95°C for 30 sec
	68°C for 1 min
1–5 kb	68°C for 1 min
	95°C for 1 min
	25–35 cycles:
	95°C for 30 sec
	68°C for 3 min
	68°C for 3 min

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This document has been reviewed and approved by the Clontech Quality Assurance Department.