

## 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.

- High Yield PCR 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)
- MgCl<sub>2</sub> (2 mM final conc.)
- dNTP Mix
- Reaction Buffer
- Cryoprotectant
- Stabilizers

- Optically Clear Cap Strips (8 caps/strip)

## II. Protocol

- Assemble a Primer/Template Mix

Each tube of High Yield PCR 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.

- Reconstitute the Premix

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

- 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      | <ul style="list-style-type: none"> <li>95°C for 1 min</li> <li>25–35 cycles:                             <ul style="list-style-type: none"> <li>95°C for 30 sec</li> <li>68°C for 1 min</li> </ul> </li> <li>68°C for 1 min</li> </ul> |
| 1–5 kb      | <ul style="list-style-type: none"> <li>95°C for 1 min</li> <li>25–35 cycles:                             <ul style="list-style-type: none"> <li>95°C for 30 sec</li> <li>68°C for 3 min</li> </ul> </li> <li>68°C for 3 min</li> </ul> |

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