

DeCodi-Fi™

HIGH-FIDELITY PCR KIT

QUICK START GUIDE



Standard Recipe

Components	25 μ L reaction	Final concentration
dH ₂ O	To 25 μ L	–
DNA template	Variable*	1ng-100 ng
Forward primer (10 μ M)	0.5 μ L	0.2 μ M
Reverse primer (10 μ M)	0.5 μ L	0.2 μ M
DeCodi-Fi™ 5X High-Fidelity Buffer or 5X GC-rich Buffer	5 μ L	1x
DeCodi-Fi™ MgCl ₂ (25 mM)	Variable: The buffer contains 2 mM Mg ²⁺ at 1X concentration	
DeCodi-Fi™ dNTP Mix (10 mM)	0.75 μ L	0.3 mM
DeCodi-Fi™ High-Fidelity Polymerase (1U/ μ L)	0.5 μ L	0.02 U/ μ L

Primer Design:

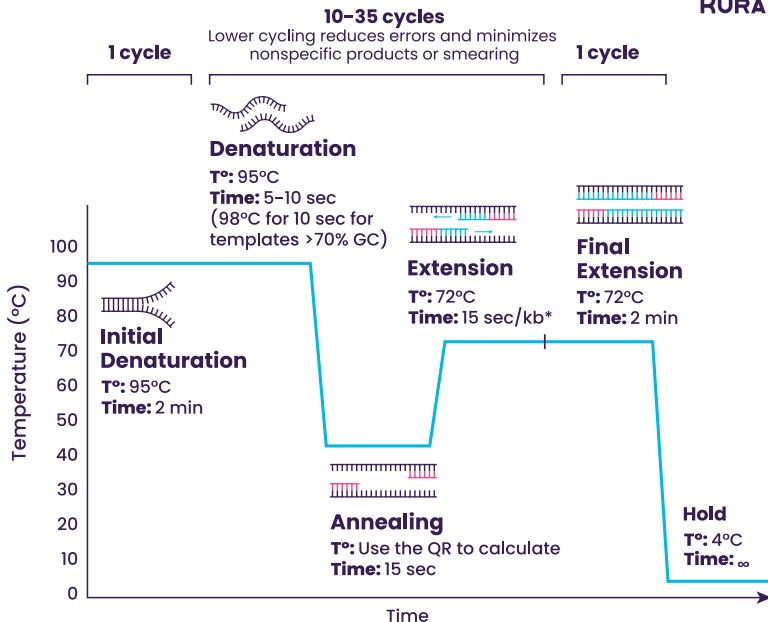
It is recommended to incorporate two phosphorothioate bonds at the 3'-ends of primer.

*Recommendations:

- ◆ 5– 50 ng gDNA
- ◆ $\leq$ 1 ng for templates $\leq$ 50Kb.
- ◆ Load $>10^4$ copies of template for obtaining amplification at 25 cycles, AVOID to use more than 100 ng per reaction
- ◆ TIP: 35 ng of human gDNA corresponds to 10^4 copies

Technical Data Sheet





*Recommendations:

- ◆ For plasmid amplification linearize it or lower the extension time if a higher molecular band is observed

T_m calculator

Use the temperature obtained in the "salt adjusted" field

