

## HelixAmp™ Ready-2x-Go [*Hot-Taq*]

### Contents

#### HelixAmp™ Ready-2x-Go [*Hot-Taq*]

Cat. No.	PM002L, PMD002L
Ready-2x-Go [ <i>Hot-Taq</i> ]	1 ml x 5ea
5x TuneUp™ solution	0.5 ml
Instructions for Use	1 ea

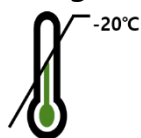
### Description

**HelixAmp™ Ready-2x-Go [*Hot-Taq*]** are optimized mixtures of HelixAmp *Hot-Taq* DNA polymerase (Chemically-modified hot start form) with reaction buffer and dNTPs as 2-fold concentration. This pre-mixed formulation is designed to save time and reduce the error and contamination opportunities. For the optimization of PCR, 5x TuneUp™ Solution is separately provided. **HelixAmp™ Ready-2x-Go [*Hot-Taq*]** provides the most suitable condition for efficient and reproducible PCR.

### Store

Store the products containing dye below -20°C and keep away from light during storage.

#### Storage



Store below -20°C

#### Shelf life



12 months

### Quality Control Assay

By NanoHelix's ISO 13485-certified Quality Management System, each lot of **HelixAmp™ Ready-2x-Go [*Hot-Taq*]** was tested against predetermined specifications to ensure consistent product quality.

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## Protocol

### 1. Recommended amount of template DNA.

Human genomic DNA : 10 ~ 100 ng

Bacterial genomic DNA : 5 ~ 50 ng

Purified plasmid or phage DNA : 1 ~ 5 ng

### 2. Mix following components in a PCR tube.

Components	Volumes ( $\mu$ l)
Template	X $\mu$ l
Forward Primer (10 $\mu$ M)	2 $\mu$ l
Reverse Primer (10 $\mu$ M)	2 $\mu$ l
5x TuneUp™ Solution [optional]	0 ~ 20 $\mu$ l
HelixAmp™ Ready-2x-Go [ <i>Hot-Taq</i> ]	25 $\mu$ l
RNase-free Water	to 50 $\mu$ l

※ **TuneUp™ Solution** is an additive altering the binding behavior of primer and template and can help the amplification that do not work well under standard PCR condition. Especially, TuneUp™ Solution can be used for the amplification of problematic template, such as high G+C content and repeat sequence regions. TuneUp™ Solution uses as adding into PCR reaction mixture from 0.5x to 2x.

### 3. PCR condition.

Temperature & time	Cycles
95°C, 15 min	x 1
95°C, 20 sec	x 25 ~ 40
Annealing Temp., 40 sec	
72°C, 1 min/kb (Expected size of product)	
72°C, 5 min	x 1

Annealing Temp. =  $T_m - (6 \sim 8^\circ\text{C})$

$T_m$  (Melting Temp.) =  $[4^\circ\text{C} \times (\text{G} + \text{C})] + [2^\circ\text{C} \times (\text{A} + \text{T})]$

## Precautions

Store the product containing dye in a place protected from light, as prolonged exposure to light may degrade its performance.

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## Products

Cat. No.	Products	Size
PM002L	HelixAmp™ Ready-2x-Go [ <i>Hot-Taq</i> ], 5x TuneUp™ solution	1 ml x 5ea
PMD002L	HelixAmp™ Ready-2x-Go [ <i>Hot-Taq</i> ] (with dye), 5x TuneUp™ solution	1 ml x 5ea

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