Ver. 2304-02

# HelixAmp™ Ready-2x-Go Series

#### **Kit Contents**

HelixAmp™ Ready-2x-Go			
Ready-2x-Go	1ml x 5ea		
5x TuneUp™ Solution	0.5ml		
Instructions for Use	1ea		

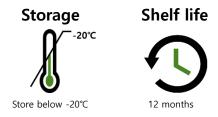
HelixAmp™ Ready-2x-Go Series are the mixtures of one of thermostable DNA polymerase, PCR buffer, dNTPs and stabilizing agents. For the optimization of PCR, 5x TuneUp™ Solution is separately provided.

## Description

HelixAmp™ Ready-2x-Go Series are optimized mixtures of a PCR enzyme 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. Depending on the purpose of PCR, HelixAmp™ Ready-2x-Go mixture is selectable from routine PCR to high fidelity and long PCR. HelixAmp™ Ready-2x-Go Series provides the most suitable condition for efficient and reproducible PCR. The addition of TuneUp ™ Solution in the reaction mixture is a simple way to optimize the long-range PCR.

#### Store

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



## **Quality Control**

By NanoHelix's ISO 13485-certified Quality Management System, each lot of HelixAmp™ Ready-2x-Go Series 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 ~ 100ng Bacterial genomic DNA: 5 ~ 50ng Purified plasmid or phage DNA: 1 ~ 5ng

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

Components	Volumes (μl)	
Template	Xμl	
Forward Primer (10µM)	2µl	
Reverse Primer (10µM)	2µl	
5x TuneUp™ Solution [optional]	0 ~ 20µl	
Ready-2x-Go	25µl	
RNase-free Water	to 50µl	

#### 3. PCR condition

Temperature & time	Cycles	
95°C, 2 min or 15 min <sup>(a)</sup>	x 1	
95°C, 20 sec		
Annealing Temp., 40 sec	x 25 ~ 40	
Extension (72°C) <sup>(b)</sup>		
72°C, 5 min	x 1	

<sup>(</sup>a) In case of HelixAmp™ Ready-2x-Go [Hot-Taq]

(b) Extension time according to expected size of product

- Taq, Hot-Taq Polymerase : 1 min/kb- Power-Pfu Polymerase : 2 min/kb

- Taq-Plus, Xtender-Taq Polymerase: 1 min/kb

Hot-Taq: Annealing Temp. =  $T_m$  - (6 ~ 8°C) Taq, Power-Pfu: Annealing Temp. =  $T_m$  - (4 ~ 6°C) Taq-Plus, Xtender-Taq: Annealing Temp. =  $T_m$  - (4 ~ 6°C)  $T_m$  (Melting Temp.) =  $T_m$  =  $T_m$  - (4 ~ 6°C)

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# **Precautions**

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

## **Products**

Cat. No.	Products	Size
PM001L	HelixAmp™ Ready-2x-Go [ <i>Taq</i> ], 5x TuneUp™ Solution	1ml x 5ea
PM002L	HelixAmp™ Ready-2x-Go [ <i>Hot-Taq</i> ], 5x TuneUp™ Solution	1ml x 5ea
PM004L	HelixAmp™ Ready-2x-Go [ <i>Xtender-Taq</i> ], 5x TuneUp™ Solution	1ml x 5ea
PM006L	HelixAmp™ Ready-2x-Go [ <i>Power-Pfu</i> ], 5x TuneUp™ Solution	1ml x 5ea
PM008L	HelixAmp™ Ready-2x-Go [ <i>Taq-Plus</i> ], 5x TuneUp™ Solution	1ml x 5ea
PMD001L	HelixAmp™ Ready-2x-Go [ <i>Taq</i> ] ( <b>with dye</b> ), 5x TuneUp™ Solution	1ml x 5ea
PMD002L	HelixAmp™ Ready-2x-Go [ <i>Hot-Taq</i> ] ( <b>with dye</b> ), 5x TuneUp™ Solution	1ml x 5ea
PMD006L	HelixAmp™ Ready-2x-Go [ <i>Power-Pfu</i> ] ( <b>with dye</b> ), 5x TuneUp™ Solution	1ml x 5ea
PMD008L	HelixAmp™ Ready-2x-Go [ <i>Taq-Plus</i> ] ( <b>with dye</b> ), 5x TuneUp™ Solution	1ml x 5ea