

HelixAmp™ Ready-2x-Multiplex (Ver. 2.0)

Kit Contents

HelixAmp™ Ready-2x-Multiplex (Ver. 2.0)				
Cat. No.	MU001S	MU001L	MUD001S	MUD001L
Packing size	1.25ml x 2ea	1.25ml x 10ea	1.25ml x 2ea	1.25ml x 10ea
Ready-2x-Multiplex (Ver 2.0)	without Dye	without Dye	with Dye	with Dye
Instructions for Use	1ea	1ea	1ea	1ea

Description

HelixAmp™ Ready-2x-Multiplex (Ver. 2.0), the best choice to setup complex multiplexing PCR, is a pre-mixed solution containing HelixAmp™ *Hot-Taq* Polymerase, dNTPs and optimized buffer as 2x concentration. HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) is designed for hot-start PCR to allow the highest specificity and minimize the interruptions among the primers in a reaction mixture. This pre-mixed enzyme is highly suitable for up to 13-plex PCR, allele specific PCR (discriminating SNP), and applications for genotyping. HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) provides the most suitable condition for efficient and reproducible multiplex or specific PCR.

Application

Multiplex PCR

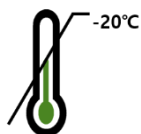
Allele-specific PCR

Contents

HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) mixture containing HelixAmp™ *Hot-Taq* Polymerase (Ver. 2.0), Buffer, dNTPs and stabilizing agents.

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

By NanoHelix's ISO 13485-certified Quality Management System, each lot of **HelixAmp™ Ready-2x-Multiplex (Ver. 2.0)** was tested against predetermined specifications to ensure consistent product quality.

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	X μl
Primers * (each 10μM)	0.1~1μl
Ready-2x-Multiplex (Ver. 2.0)	25μl
RNase-free Water	to 50μl

* The amount of each primers should be adjusted according to the efficiencies of target amplifications.

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	
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.

Products

Cat. No.	Products	Size
MU001S	HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) [1.25ml/tube x 2ea]	2.5ml
MU001L	HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) [1.25ml/tube x 10ea]	12.5ml
MUD001S	HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) [with Dye , 1.25ml/tube x 2ea]	2.5ml
MUD001L	HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) [with Dye , 1.25ml/tube x 10ea]	12.5ml