

HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) (8-strip tube type)

Kit Contents

HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) (8-strip tube type)				
Cat. No.	MUT001-96	MUT001-480	MUDT001-96	MUDT001-480
Packing size	8-strip x 12/plate	8-strip x 12/plate x 5plate	8-strip x 12/plate	8-strip x 12/plate x 5plate
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

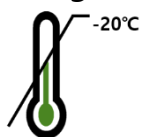
HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) mixture containing HelixAmp™ *Hot-Taq* Polymerase (Ver. 2.0), Buffer, dNTPs and stabilizing agents.

Store

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

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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. Prepare the PCR Pre-Mix tubes according to the number of test sample.

3. Add following components to each tube containing 15μl of HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) Premix.

Components	Volumes (μl)
Template	X μl
Primers * (each 10μM)	0.1~1μl

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

4. Adjust reaction volume to final 30μl with RNase-free Water and mix well.

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5. Perform the PCR with following 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
MUT001-96	HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) [8-strip tube type (8-strip x 12/plate)]	96rxns
MUT001-480	HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) [8-strip tube type (8-strip x 12/plate, 5plates)]	480rxns
MUDT001-96	HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) [8-strip tube type (8-strip x 12/plate), with Dye]	96rxns
MUDT001-480	HelixAmp™ Ready-2x-Multiplex (Ver. 2.0) [8-strip tube type (8-strip x 12/plate, 5plates), with Dye]	480rxns