

HelixAmp™ Ready-2x-Multiplex (with Dye) [UDG System] (Ver. 2.0)

Kit Contents

HelixAmp™ Ready-2x-Multiplex (with Dye) [UDG System] (Ver. 2.0)				
Cat. No.	MUUD01-M1	MUUD01-M5	MUUD01-M50	MUUD01-M50B
Packing size	1ml	1ml x 5ea	1ml x 50ea	50ml
Blue Box	-	-	1ea	-
Instructions for Use	1ea	1ea	1ea	1ea

Description

HelixAmp™ Ready-2x-Multiplex (with Dye) [UDG System] (Ver. 2.0), the best choice to setup complex multiplexing PCR, is a pre-mixed solution containing HelixAmp™ *Hot-Taq* Polymerase, dNTPs (with dUTP), Uracil-DNA glycosylase (UDG) and optimized buffer as 2x concentration. UDG with dUTP system for the prevention of carryover contamination was applied to this premix. HelixAmp™ Ready-2x-Multiplex (with Dye) [UDG System] (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 allele specific PCR (discriminating SNP), and applications for genotyping. HelixAmp™ Ready-2x-Multiplex (with Dye) [UDG System] (Ver. 2.0) provides the most suitable condition for efficient and reproducible multiplex or specific PCR.

Application

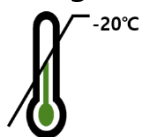
Multiplex PCR
 Allele-specific PCR

Contents

HelixAmp™ Ready-2x-Multiplex (with Dye) [UDG System] (Ver. 2.0) mixture containing HelixAmp™ *Hot-Taq* Polymerase, Buffer, UDG, dNTPs (with dUTP) and stabilizing agents.

Store

Store the products 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 (with Dye) [UDG System] (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)	10μl
Ready-2x Multiplex (with Dye) [UDG System] (Ver. 2.0)	25μl
RNase-free Water	to final 50μl

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

3. Perform the PCR with following condition.

Temperature & time	Cycles
50°C, 5 min	x 1
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 in a place protected from light, as prolonged exposure to light may degrade its performance.

Products

Cat. No.	Products	Size
MUUD01-M1	HelixAmp™ Ready-2x-Multiplex (with Dye) [UDG System] (Ver. 2.0) (1ml/tube)	1ml
MUUD01-M5	HelixAmp™ Ready-2x-Multiplex (with Dye) [UDG System] (Ver. 2.0) (1ml/tube, 5tubes)	5ml
MUUD01-M50	HelixAmp™ Ready-2x-Multiplex (with Dye) [UDG System] (Ver. 2.0) (1ml/tube, 50tubes), Blue box	50ml
MUUD01-M50B	HelixAmp™ Ready-2x-Multiplex (with Dye) [UDG System] (Ver. 2.0) (50ml/Bottle)	50ml