

## Reference Guide

## DNA Fast qPCR Mix (2X)

Catalog	Description
HL - DFCqPM2X	1.3ml

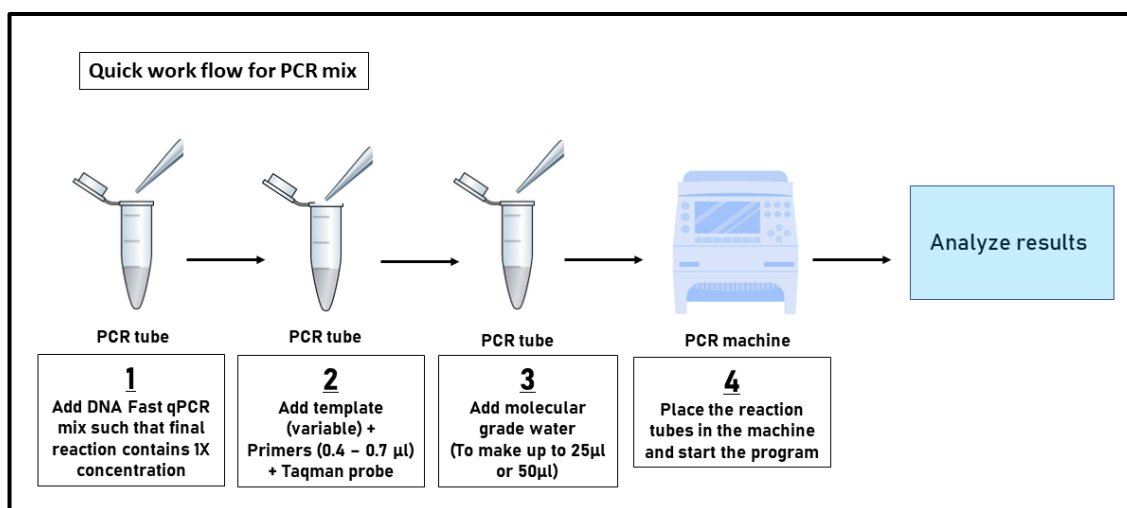
 Store at - 20°C  
 PI/HL-DFCqPM2X-02

## Product description

DNA Fast qPCR Mix (2X) is best suited for fast-paced laboratories. The QuickStart Taq Polymerase Enzyme included in the premix (2X) greatly reduces the reaction time thereby speeding up the entire process. The premixed 2X concentrated reagents are ready-to-use for real-time Polymerase chain reactions (PCR). Template of choice along with primer probe mix is to be added such that the final concentration of the PCR mix is 1X in the final assay. The DNA Fast qPCR mix is designed for Taqman based assays with DNA templates

## Features

- Contains QuickStart Taq Polymerase Enzyme to provide a better yield with 5'-3' Polymerase and Exonuclease activity
- Includes QuickStart Taq Polymerase reaction buffer, dNTPs for ready to use PCR applications
- High specificity and sensitivity
- Buffer enhancements guarantee performance and reliability



## Reagents provided

DNA Fast qPCR Mix (2X) (1.3ml)

## Storage conditions

DNA Fast qPCR Mix (2X) (1.3ml) should be stored at -20°C

## Recommended reaction set-up for PCR

Prepare PCRs using required volumes of freeze-thawed components in the PCR hood as recommended in the table below

PCR Protocol	
Component	Volume(µL)
DNA Fast q PCR Mix	13.0
Forward primer (10 pm/µL)	0.4-0.7
Reverse primer (10 pm/µL)	0.4-0.7
TaqMan Probe	Variable (user defined)
Template DNA or cDNA	Variable (user defined)
Nuclease Free Water	Variable (user defined)
<b>Total Volume</b>	<b>26</b>

The reaction setup is for guidance and it can be modified according to the user's need. The current product is sufficient for 100 reactions if the above protocol is used.

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Note: Mix the vials with the reaction set up by gentle tapping. A short spin is recommended after gentle mixing to ensure that the reagent mix is not sticking to the walls of the PCR tube

### Thermo Cycling Protocol

Place the tubes in the Thermal Cycler and start the polymerase chain reaction protocol. Below is a general template for PCRs and should be optimized for good results

Recommended PCR Program			
Operation	Temp	Time	Cycles
Initial denaturation	95°C	1-5 min	1
Denaturation	95°C	1-5 sec	35-40 cycles
Annealing & Extension	60°C	1-5 sec	

### Applications

- Routine PCR reactions
- Gene expression analysis
- Amplified fragment length polymorphism
- cDNA amplification
- Molecular identification of organisms
- Viral load detection
- Pharmacogenomics
- Single nucleotide polymorphisms

Other PCR products from Huwel LifeSciences that you may be interested

S.No.	Product description	Catalogue No.
1.	DNA Fast qPCR Mix with UDG (2X) ***	HL-UDFCqPM2X
2.	Taq Polymerase Enzyme (5U/μl)	HL - Taq - 50 - 250Units HL - Taq - 100 - 500Units HL - Taq - 200 - 1000Units
3.	HotStart Taq Polymerase Enzyme (5U/μl)	HL - HSTaq - 50 - 250Units HL - HSTaq - 100 - 500Units HL - HSTaq - 200 - 1000Units
4.	QuickStart Taq Polymerase Enzyme (5U/μl)	HL - QSTaq - 50 - 250Units HL - QSTaq - 100 - 500Units HL - QSTaq - 200 - 1000Units

\*\*\* This reagent is with Uracil DNA Glycosylase (UDG) which helps in avoiding carry-over contaminations

For further information on protocols and details, please contact our technical support:

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