

GUEasy Hot Start Taq DNA polymerase

i. Product Description

This product is a hot-start Taq enzyme obtained by mixing GUEasy Plus Taq Antibody and GUEasy Taq DNA polymerase in an optimal ratio. After the enzyme is heat-activated at 95°C, the antibody falls off to release the enzyme activity. Before the amplification system is prepared for PCR amplification, non-specific amplification due to primer mispairing will not occur, the non-specific amplification and the formation of primer dimers will be minimized, and the sensitivity and specificity of amplification will be improved.

ii. Advantages

Stability: High standard production process achieves extremely high stability.

Sensitive: It can effectively detect low copy number templates.

Specific: Effectively inhibits primer-dimers.

Compatibility: It has excellent compatibility with various PCR and qPCR systems.

iii. Using references

Components	Volume (ul)	Final Conc.
5xGUEasy Hot Start Taq buffer (Mg ²⁺)	4	1x
GUEasy Hot Start Taq DNA polymerase, 5U/ul	1	0.2U/ul
Probe Mix (10uM)	0.5 each	0.2uM
Primer Mix (10uM)	1 each	0.4uM
Template	1-10ul	-
ddH ₂ O	up to 20ul	-

iv. Reference procedure

Steps	Temp	Time	Number of cycles
Initial denaturation	95°C	1-5min	1
Denaturation	95°C	5-15s	40
Extension and Fluorescence Acquisition	60°C	30s	

v. Storage condition

Shipped in ice-pack, stored at -20°C, valid for two years.

vi. Product Specification

Product	Catalog #	Size	Activity
GUEasy Hot Start Taq DNA polymerase	KQ3001-02	200ul	1000U
GUEasy Hot Start Taq DNA polymerase	KQ3001-05	500ul	2500U
GUEasy Hot Start Taq DNA polymerase	KQ3001-1	1ml	5000U
GUEasy Hot Start Taq DNA polymerase	KQ3001-3	3ml	15000U
GUEasy Hot Start Taq DNA polymerase	KQ3001-5	5ml	25000U