

GUeasy Taq DNA Polymerase

i. Product Description

GUeasy Taq DNA Polymerase, a heat-resistant DNA polymerase, derived from *Thermus aquaticus*, has polymerase activity and 5' → 3' exonuclease activity. This product is produced under similar GMP conditions. If fluorescent quantitative PCR detection is required, hot start modification is required for this product.

ii. Advantages

Stability: High standard production process to achieve high product stability.

Sensitivity: Effectively detect the template with single copies.

Compatibility: Excellent compatibility with various PCR and qPCR systems

iii. Using references

Components	Volume (ul)	Final Conc.
5xTaq buffer (Mg ²⁺)	10	1x
GUeasy Taq DNA Polymerase (5U/ul)	0.4-1	0.04-0.1U/ul
Primer Mix (10uM)	2(each)	0.4uM
dNTP Mix (10 mM each)	1	0.2mM
Template	optional	-
ddH ₂ O	up to 50ul	-

iv. Reference procedure

Steps	TEMP	Time	Number of cycles
Initial denaturation	95°C	1-5min	1
Denaturation	95°C	30s	30
Annealing	50-60°C	30s	
Extension	72°C	10s/kb	
Final elongation	72°C	10min	1

v. Storage condition

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

vi. Product Specification

Product	Catalog #	Size	Activity
GUeasy Taq DNA Polymerase	Q3001-02	200ul	1000U
GUeasy Taq DNA Polymerase	Q3001-05	500ul	2500U
GUeasy Taq DNA Polymerase	Q3001-1	1ml	5000U
GUeasy Taq DNA Polymerase	Q3001-3	3ml	15000U
GUeasy Taq DNA Polymerase	Q3001-5	5ml	25000U