AddStart Taq DNA Master (2x conc.) with or without UDG

Product Information

Product Code 36101 (without UDG), 36101U (with UDG)

Provided with

Cat. No. 36101: AddStart Taq DNA Master (2x conc.) 1.0 mL x 5 tubes

Cat. No. 36101U: AddStart Taq DNA Master (2x conc.) with UDG 1.0 mL x 5 tubes

Storage Conditions -10°C ~ -30°C

Stability Stable for 2 years from manufacturing date.

Components of AddStart Taq DNA Master (2x conc.)

AddStart Taq DNA Polymerase, Tris-HCl (pH8.8), Potassium Chloride, Ammonium Sulfate, $MgCl_2$, Protein stabilizer, sediment, loading dye (Orange G) and dNTP mixture.

Description

AddStart Taq DNA Master (2x conc.) is a ready-to-use mixture with AddStart Taq DNA Polymerase, reaction buffer with $MgCl_2$, dNTPs, sediment, PCR enhancer and loading dye (Orange G) for PCR and electrophoresis. In case of AddStart Taq DNA Master with UDG (2x conc., 36101U) contains UDG (Uracil-DNA Glycosylase) for prevention of carryover contamination from amplification products.
AddStart Taq DNA polymerase catalyzes the 5′→3′ synthesis of DNA but has no detectable 3′→5′ proofreading exonuclease activity, and possesses low 5′→3′ exonuclease activity, which results in a 3′-dA overhang on the PCR product. Normal maximum amplicon size is ~5kb and the polymerization rate is 1 kb per 1 min., but maximum rate is 2 kb per 1 min.

Applications

- General PCR
- Multi - plex PCR
- Colony PCR
- Screening PCR
- Cloning

Nucleic Acid Amplification Procedure

1. Add the following components to a thin-walled PCR tube:

Nuclease-Free Water	x µl
AddStart Taq DNA Master (2x conc.)	10 µl
Forward primer (10 µM)	0.25 ~ 2 µl
Reverse primer (10 µM)	0.25 ~ 2 µl
DNA template	x µl
Total reaction volume	20 µl

* Recommendation of template DNA concentration in a 20 µl reaction volume
1) Human genomic DNA: 0.1 ng ~ 1 µg
2) Bacterial, Plant genomic DNA: 0.1 ng ~ 100 ng
3) Plasmid DNA: 0.01 ng ~ 5 ng

2. PCR cycling

UDG reaction (optional)*	50 °C, 3 min
Initial denaturation	95°C, 10 min
PCR cycling (25 - 40 cycles)	95°C, 15 - 30 sec
	55 - 65°C, 15 - 30 sec
	72°C, 30 - 60 sec
Final extension	72°C, 5 min
Hold	12°C, ∞

* If use Addstart Taq DNA Master with UDG, this step is included in PCR cycling.

Manufacture

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