2X Taq PreMix (Master Mix)

Description:

2X *Taq* Premix contains Parstous *Taq* DNA polymerase, reaction buffer, dNTPs mixture, protein stabilizer, and optimizes the convenience to use by adding sediment for electrophoresis and 2X solution of loading dye. In general, 2X *Taq* Premix shows no decline of activity compare with *Taq* DNA Polymerase, even in a room temperature. 2X *Taq* Premix is good for under 3 Kb of PCR products.

Kit storage:

This kit should be stored at -20°C. Unnecessary repeated freeze/thawing should be avoided. Under these conditions reagents are stable for one year from the date of production.

General Reaction Protocol:

1. Thaw 2X *Taq* Premix.
2. Prepare a master mix as following table.

Component	Volume	Final conc.
2X *Taq* Premix	10 µL	1X
Upstream Primer (10 pmol/ µL)	1 µL	0.5 pmoles/µL
Downstream Primer (10 pmol/ µL)	1 µL	0.5 pmoles/µL
Template DNA	Variable	10 fg~1 µg
Sterilized D.W.	Variable	-
Total Volume	20 µL	-

3. Mix the master mix and dispense appropriate volumes into PCR tubes. Centrifuge the reactions in a microcentrifuge for 10 seconds.
4. Perform PCR using your standard parameters (3-step cycling).

Cycle	Time	Temp °C
1	5 Min	94
25 ~35	30 Sec	94
	30 Sec	50~60
	30 ~60 Sec	72
1	5 Min	72

5. Separate the PCR products by agarose gel electrophoresis and visualize with EtBr or any other means.

* For PCR products longer than 3~4 Kb, use an extension time of approximately 1 min. per Kb DNA.
* A DNA fragment which is amplified by *Taq* DNA Polymerase has A overhang, and it enables you to do cloning by using T-vector.