

## Cloning & Expression Techniques

### GeNei™ GFP Cloning Teaching Kit

**Description:** The **GeNei™** GFP cloning teaching kit enables the student to clone the GFP (Green fluorescent protein) gene into pUC vector. Resulting clones after transformation into *E. coli* are visualized as glowing green colonies under UV light.

This kit provides reagents sufficient for 5 cloning experiments. Availability of transilluminator is a must at the user end.

**Materials Provided:**

- T4 DNA Ligase
- Assay Buffer for T4 DNA Ligase
- Control DNA
- Insert
- Vector
- Solution A
- Host
- Agar
- Ampicillin
- LB Broth
- 1.5 ml vials
- Instruction Manual

**Ordering Information:**

Product	Size	Cat #
<b>GeNei™</b> GFP Cloning Teaching Kit (Consumables for 5 experiments)	1 Pack	107387

**Note:** UV transilluminator is required.

### GeNei™ Bacterial Gene Expression Teaching Kit (using Lac Promoter System)

**Description:** This kit demonstrates the expression of a cloned gene in *E. coli* using IPTG inducible promoter. The level of expression of the recombinant protein in the induced and un-induced cell extract is then visualised by SDS- PAGE.

The kit provides materials sufficient for 5 experiments.

**Materials Provided:**

- Ampicillin
- IPTG
- Lyophilised Strain
- Agar
- LB Broth
- SDS-PAGE Reagents
- Protein Marker
- Control GST Protein
- Cell Lysis Buffer
- 1.5 ml vials
- Instruction Manual

**Ordering Information:**

Product	Size	Cat #
<b>GeNei™</b> Bacterial Gene Expression Teaching Kit (Consumables for 5 experiments & Elpho Kit (Cat # 107079))	1 Pack	106334
<b>GeNei™</b> Bacterial Gene Expression Teaching Kit (Consumables for 5 experiments)	1 Pack	106335

**Elpho Kit (Cat # 107079)**

Specially designed mini size vertical electrophoresis apparatus and power supply unit (50 V/100 V).