

# Bacterial Expression Vectors

## pColiExpress™ Glue Enzyme Kits Selection guide:

Name	pColiExpress™ I	pColiExpress™ II	pColiExpress™ III	pColiExpress™ IV
Catalog Number	BE001	BE005	BE010	BE015
Page	35	35	35	35
Features				
5' His <sup>6</sup> Tag	✓			
3' His <sup>6</sup> Tag		✓	✓	✓
Periplasmic expression			✓	
5' cmyc Tag				✓
HRV protease cut site				✓
Resistance Marker-Ampicillin	✓	✓	✓	✓
T7 promoter	✓	✓	✓	✓
Low copy number (ori pBR322)	✓	✓	✓	✓
Strain Protein Expression	BL21 (DE3)	✓	✓	✓
	BL21 (DE3) pLys	✓	✓	✓

## pColiExpress™ Glue Enzyme Kits

For a highly efficient and versatile protein expression in *E. coli* from PCR fragment cloned



### All vectors includes for 20 rxn:

- 20 µL pColiExpress™ (50 ng/µL)
- 50 µL Glue Enzyme Buffer (10x)
- 40 µL Glue Enzyme (10 UI/µL)
- 10 µL Insert Control DNA (30 ng/µL)
- 5 µL pColiExpress™ Control (50 ng/µL)



### Related Products:

- FastPANGEA™ High Fidelity DNA Polymerase (p.105)
- WideUse™ Plasmid Purification kit (p.92)
- CVX5α™ Chemically Competent cells (p.18)
- Ampicillin (p.126)

### Description:

pColiExpress™ Glue Enzyme Kits are a highly efficient, versatile and fast system of DNA cloning vectors for protein expression in *E. coli*. All family vectors are based in a breakthrough technology which allows cloning efficiently DNA fragments and the fast production of a large quantity of the desired protein.

### Advantages & Features:

- ✓ **Ready-to-use vectors.**
- ✓ **Highly efficient cloning system.**
- ✓ **Special design** that allows the cell to keep larger numbers of copies than other plasmids with ori pBR322.
- ✓ **Linearized vector:** ready for ligation with your PCR amplified with the recommended primers.
- ✓ **Low background:** < 1%.
- ✓ **Time-saving protocol:** avoids any step required after PCR.
- ✓ **Higher protein expression** than other suppliers.
- ✓ **Cost avoidance:** avoids the use of expensive phosphorylated primers.
- ✓ **Versatility:** cloning of PCR fragments amplified with any type of DNA polymerase.

### Applications:

- ✓ Cloning of PCR fragments for subsequent expression of proteins in *E. coli*.
- ✓ Expression of proteins under the control of the T7 promoter.
- ✓ Protein expression in BL21 (DE3) or BL21 (DE3) (pLys).

### Quality control:

- ✓ Efficiency of ligation with the insert Control >1,000 cfu with 1:5 relationship vector: insert using CVX5α™ competent cells with > 10<sup>7</sup> cfu/µg.

### Incoming Products:

- pColiExpress™ I T4 Ligase Kit
- pColiExpress™ II T4 Ligase Kit
- pColiExpress™ III T4 Ligase Kit
- pColiExpress™ VI T4 Ligase Kit

Distributed by:	Tallaght Business Park Whitestown, Dublin 24, Ireland D24 RFK3	Quatro House, Frimley Road, Camberley, United Kingdom GU16 7ER
	<b>Lab Unlimited</b> CARL STUART GROUP Tel: (01) 4523432 Fax: (01) 4523987 E-mail: info@labunlimited.com Web: www.labunlimited.com	Tel: 08452 30 40 30 Fax: 08452 30 50 30 E-mail: info@labunlimited.co.uk Web: www.labunlimited.co.uk