

IMPACT Kit

E. coli E6901S 1 set

- Single Column純化
- 無需Protease 即可去除Tag
- 蛋白質產物形成N-terminal cysteine and/or C-terminal thioester, 便於彼此接合或標記

PURExpress In Vitro Protein Synthesis Kits

Cell Free Expression E6800S/L 10/100 reactions

- 2小時完成蛋白質表現
- Linear DNA或circular DNA皆可直接使用
- 產物以親和層析法即可進行純化
- ribosome, aa, tRNA, RF 1/2/3特殊需求亦可洽詢

pMAL Protein Fusion and Purification System

E. coli E8200S 1 set

- 75%以上的蛋白質可獲得高產量(100mg/L)
- 可於細胞質或周質空間中表現；於周質表現可促進雙硫鍵形成，幫助蛋白質摺疊
- MBP融合蛋白可提高蛋白質可溶性

K. lactis Protein Expression Kit

Yeast E1000S 1 set

- 工業等級的高產量真核表現系統
- 可表現對*E. coli*具毒性的蛋白質
- 可同時表現多種蛋白質
- 不需使用抗生素或Methanol

APPLICATION	KIT	ADVANTAGES
HIGH YIELD EXPRESSION	pMAL Protein Fusion and Purification System	Substantial yields (up to 100 mg/L) in more than 75% cases tested; uses the strong Ptac promoter
	K. lactis Protein Expression Kit	Uses the strong LAC4 promoter; multiple integrations of plasmid results in higher yield
	IMPACT Kit	Uses the T7 promoter for high level regulated expression
CELL-FREE EXPRESSION	PURExpress In Vitro Protein Synthesis Kits	Quickly generates analytical amounts of protein
CO-EXPRESSION OF MULTIPLE PROTEINS	K. lactis Protein Expression Kit	Easily co-express 2 – 4 proteins
	PURExpress In Vitro Protein Synthesis Kits	Bicistronic constructs or multiple plasmids with appropriate transcription and translation regulatory elements can be used
ENHANCED SOLUBILITY	pMAL Protein Fusion and Purification System	Fusion to MBP enhances solubility of proteins in <i>E. coli</i>
	K. lactis Protein Expression Kit	Utilizes <i>K. lactis</i> eukaryotic folding pathway
AFFINITY TAG CHROMATOGRAPHY	IMPACT Kit	Utilizes an intein-CBD tag on either the N- or C- terminus, offers single-step purification
	pMAL Protein Fusion and Purification System	Fusion to MBP allows for purification on amylose resin
	K. lactis Protein Expression Kit	Vectors are sold separately that generate fusions to MBP allowing for purification on amylose resin
POST-TRANSLATIONAL MODIFICATION	K. lactis Protein Expression Kit	Secretion of both N- and O- glycosylated proteins
PERIPLASMIC EXPRESSION	pMAL Protein Fusion and Purification System	Periplasmic expression enhances folding of proteins with disulfide bonds
SECRETED EXPRESSION	K. lactis Protein Expression Kit	Eliminates cell lysis step, simplifying purification
TOXIC PROTEINS	K. lactis Protein Expression Kit	Secretion of protein from the cell
	IMPACT Kit	Can express the toxic gene in two pieces and ligate proteins together
	pMAL Protein Fusion and Purification System	Can export toxic proteins into periplasmic space
	PURExpress In Vitro Protein Synthesis Kits	Cell-free environment not affected by "toxicity" of expressed protein
PROTEIN LABELING or LIGATION	IMPACT Kit	Generates proteins with reactive ends (N-terminal cysteine and/or C-terminal thioester)
	PURExpress In Vitro Protein Synthesis Kits	Allows introduction of modified, unnatural, or labeled amino acids
NO ADDITIONAL AMINO ACID RESIDUES	IMPACT Kit	Start of native protein is fused adjacent to site of cleavage
	pMAL Protein Fusion and Purification System	Start of protein is fused adjacent to protease site