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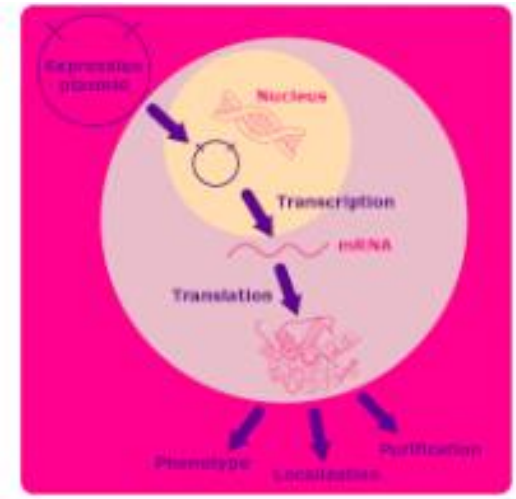
Технические характеристики на материалы для клонирования и экспрессии компании Sigma-Aldrich

Виды товаров: ферменты рестрикции и ферменты, модифицирующие ДНК, бесклеточные системы экспрессии и векторы экспрессии с использованием промоторов CMV и технологии тегов FLAG, векторы, системы экспрессии белков, Реагенты и ресурсы для трансформации бактерий и дрожжей, Реагенты для трансфекции на основе фосфата кальция, липидов и полимеров для доставки ДНК, миРНК, микроРНК и компонентов CRISPR/Cas, реагенты для трансфекции X-tremeGENE™ Roche и др.

Molecular Cloning & Protein Expression



The aim of molecular cloning is to insert the gene-of-interest (GOI) into a plasmid vector, a circular piece of DNA that contains various elements to facilitate cloning, clone selection, and protein expression. Researchers often use DNA restriction enzymes and ligase to insert the GOI in-frame within the expression vector for subsequent protein expression. This vector is then inserted into a cell that will express the protein encoded by the GOI or protein expression is accomplished using cell-free protein synthesis systems.

Once the protein is expressed, the protein function can be studied as it affects the cell signaling, morphology, or other aspects within the cell. Alternatively, the protein can be expressed in large quantities, purified, and used in numerous downstream applications. For additional information, explore our comprehensive offering of reliable reagents and resources that are available across the cloning & expression workflow for insect, bacteria, and mammalian protein expression systems.

Read more about

- **Restriction Enzymes and DNA Modifying Enzymes**
- **Cell-Free Expression Systems and Expression Vectors using CMV Promoters and FLAG® Tag Technology**
- **Novagen® pET System, SnapFast™ Vectors, Simplicon™ Vectors, and UCOE™ Protein Expression Systems**
- **Bacterial and Yeast Transformation Reagents and Resources**

RESTRICTION ENZYMES AND DNA MODIFYING ENZYMES

In molecular cloning, researchers often use two general types of enzymes – restriction enzymes for cutting DNA and modifying enzymes for making nucleic acid modifications, often before the ligation step. Explore our wide range of restriction enzymes and other modifying enzymes such as Alkaline Phosphatase, Protease, T7 RNA polymerase, Ribonuclease A and T4 DNA ligase for all your research needs.

CELL-FREE EXPRESSION SYSTEMS AND EXPRESSION VECTORS USING CMV PROMOTERS AND FLAG® TAG TECHNOLOGY

Our cloning and expression portfolio make genetic engineering cheaper and more efficient by providing a collection of versatile vectors with streamlined protocols and cloning kits. Choose from our wide range of cloning & expression systems, including our **Cell-Free Protein Synthesis or Expression system**, such as the Next Generation Cell-Free Protein Expression Kit (Wheat Germ) (Product No. **CFPS700**) and the ALiCE® kit (Cat. No. **AL0103000**). Additionally, discover the bacterial and mammalian FLAG® expression vectors for periplasmic or cytoplasmic expression in transient or stable transfection systems and confidently express your FLAG® or 3X FLAG® sequence on the N- or C-terminal with an enterokinase (Ek) cleavage site to remove the fusion tag if necessary.

BACTERIAL AND YEAST TRANSFORMATION REAGENTS AND RESOURCES

Bacterial transformation is the process of inserting foreign DNA into bacteria using methods such as heat shock and electroporation. Our portfolio of competent cells is engineered for optimal protein expression for even the most challenging recombinant proteins. Browse our **Competent Cell Selection Guide** to choose from a variety of new bacterial competent cells for a wide variety of applications, including protein expression, routine or difficult cloning, and library generation. Additionally, recombinant protein expression in Saccharomyces cerevisiae has many advantages, such as simple protocols, use of basic reagents, and scalability. Explore the many products available for yeast transformation as part of the protein expression workflow. Our NovaBlue® competent cells, optimized for transfection efficiency and plasmid preservation, support superior library preparations and plasmid stability. Additionally, the Novagen® competent cells are designed to facilitate proper protein folding, increased solubility or expression of cytotoxic proteins. The most popular brands being Rosetta™, Origami™ and Overnight Express™ systems.

71207
(DE3) Competent Cell Set 1 - Novagen

71208-M
(DE3) Competent Cell Set 2 - Novagen

71209
(DE3)pLysS Competent Cell Set 1 - Novagen

71210-M
(DE3)pLysS Competent Cell Set 2 - Novagen

69041
B834(DE3) Competent Cells - Novagen
B834 is the parental strain for BL21. These hosts are methionine auxotrophs and allow high specific activity labeling of target proteins with 35S-methionine and selenomethionine for crystallography.

69042-M
B834(DE3)pLysS Competent Cells - Novagen
B834 host strains are methionine auxotrophs that allows high specific activity labeling of target proteins with 35S-methionine. T7 lysozyme expression suppresses basal T7 expression.

PP2380
Bacterial Signal Peptide Vector Set
plasmid vectors for molecular cloning

69449
BL21 Competent Cells - Novagen
BL21 host strain is the most widely used host background and has the advantage of being deficient in both lon and ompT proteases.

CMC0014
BL21(DE3) Chemically Competent Cells
for protein expression

69450-M
BL21(DE3) Competent Cells - Novagen
BL21(DE3) is a chemically competent *E. coli* cell suitable for transformation and high level protein expression using a T7 RNA polymerase-IPTG induction system.

CMC0016
BL21(DE3) Electrocompetent Cells
for protein expression

CMC0015
BL21(DE3) pLysE Chemically Competent Cells
for protein expression

70235-M
BL21(DE3) Singles Competent Cells - Novagen
BL21(DE3) is a chemically competent *E. coli* cell suitable for transformation and high level protein expression using a T7 RNA polymerase-IPTG induction system.

69451-M
BL21(DE3)pLysS Competent Cells - Novagen
BL21 host strain that expresses T7 RNA polymerase and also encode T7 lysozyme that suppresses basal expression of toxic target proteins prior to induction.

70236-M
BL21(DE3)pLysS Singles Competent Cells - Novagen

69053
BLR(DE3) Competent Cells - Novagen
BLR is a recA derivative of BL21 that improves plasmid monomer yields and may help stabilize target plasmids containing repetitive sequences.

69956
BLR(DE3)pLysS Competent Cells - Novagen
BLR is a recA derivative of BL21 that improves plasmid monomer yields and may help stabilize target plasmids containing repetitive sequences. T7 lysozyme expression suppresses basal T7 expression.

69452-M
HMS174 Competent Cells - Novagen
HMS174 strains provide high transformation efficiencies and the recA mutation in a K-12 background. Strain may stabilize certain target genes whose products may cause the loss of the DE3 prophage.

69453-M
HMS174(DE3) Competent Cells - Novagen
HMS174 strains provide high transformation efficiencies and the recA mutation in a K-12 background. Strain may stabilize certain target genes whose products may cause the loss of the DE3 prophage.

69454
HMS174(DE3)pLysS Competent Cells - Novagen
HMS174 strains provide high transformation efficiencies and the recA mutation in a K-12 background. T7 lysozyme expression suppresses basal T7 expression.

71012
HT96 BL21(DE3) Competent Cells - Novagen
The HT96 BL21(DE3) Competent Cells are designed for high-throughput transformation and protein expression applications.

PP2410
Mouse IgG Vector Set
plasmid vectors for molecular cloning

69825-M
NovaBlue Competent Cells - Novagen

NovaBlue is a K-12 strain ideally suited as an initial cloning host due to its high transformation efficiency, blue/white screening capability (with appropriate plasmids) and recA endA mutations.

71227
NovaBlue GigaSingles Competent Cells - Novagen
NovaBlue GigaSingles Competent Cells produce greater than 1 × 10^9 colonies/µg plasmid DNA for cloning applications requiring high-efficiency transformations.

71318-M
NovaBlue T1 ^{R} Singles Competent Cells - Novagen
Featuring T1 and T5 phage resistance

69284
NovaBlue(DE3) Competent Cells - Novagen
NovaBlue is a K-12 strain ideally suited as an initial cloning host due to its high transformation efficiency, DE3 lysogen cannot be used for the blue/white screening of recombinant plasmids

71431-M
Origami 2 Competent Cell Set* - Novagen

71344-M
Origami 2 Competent Cells - Novagen
Origami 2 strains have mutations in glutathione reducatase (gor) and thioredoxin reductase (trxB), facilitating proper disulfide bond formation.

71345-M
Origami 2(DE3) Competent Cells - Novagen
Origami 2 strains have mutations in glutathione reducatase (gor) and thioredoxin reductase (trxB), facilitating proper disulfide bond formation.

71346-M
Origami 2(DE3)pLysS Competent Cells - Novagen
Origami 2 strains have mutations in glutathione reducatase(gor) and thioredoxin reductase (trxB), facilitating proper disulfide bond formation. T7 lysozyme expression suppresses basal T7 expression.

70911
Origami B Competent Cell Set - Novagen

70836-M

Origami B Competent Cells - Novagen
Origami B host strains carry the same mutations as the original Origami strain, except that they are derived from a lacZY mutant of BL21 to enable precise control of expression levels using IPTG.

70837
Origami B(DE3) Competent Cells - Novagen
Origami B host strains carry the same mutations as the original Origami strain, except that they are derived from a lacZY mutant of BL21 to enable precise control of expression levels using IPTG.

70839
Origami B(DE3)pLysS Competent Cells - Novagen
Origami B host strain derived from a lacZY mutant of BL21 to enable precise control of expression levels using IPTG. T7 lysozyme expression suppresses basal T7 expression.

CMC0017
OverExpress™ C41(DE3) Chemically Competent Cells
for the highest protein expression

CMC0018
OverExpress™ C41(DE3) pLysS Chemically Competent Cells
for the highest protein expression

CMC0019
OverExpress™ C43(DE3) Chemically Competent Cells
for the highest protein expression

71147
pACYCDuet-1 DNA - Novagen
pACYCDuet-1 is designed for the coexpression of two target genes. The vector encodes two multiple cloning sites (MCS) each of which is receded by a T7 promoter, lac operator and ribosome binding site.

71234
pBiEx-1 DNA - Novagen

E5905
pCMV-BICEP™-4 Expression Vector

69076
pET-32 Ek/LIC Vector Kit - Novagen

Novagen's pET-32 Ek/LIC vector is designed for cloning and high-level expression of target proteins fused with the 109aa Trx-Tag thioredoxin protein and His-Tag and S-Tag thioredoxin protein

70599
pETBlue-1 AccepTor Vector (linearized vector) - Novagen

70608
pETBlue-1 DNA - Novagen
Novagen's pETBlue-1 vector is designed to identify recombinants by traditional blue/white screening while also allowing T7*lac* promoter based expression of target genes.

70609
pETBlue-2 DNA (uncut) - Novagen
Novagen's pETBlue-2 vector is designed to identify recombinants by traditional blue/white screening while also allowing T7*lac* promoter based expression of target genes.

71129
pETcoco-1 DNA - Novagen
Novagen's pETcoco-1 expression vector is designed to allow "on command" amplification of vector copy number from single copy (1-2 plasmid copies per cell) to medium copy (20-50 per cell).

71146
pETDuet-1 DNA - Novagen
pETDuet-1 is designed for the coexpression of two target genes. The vector encodes two multiple cloning sites, each of which is preceded by a T7 promoter, lac operator and ribosome binding sites.

71557
pIEx-10 DNA - Novagen®
Novagen's pIEx vectors are designed for cloning and high-level expression of proteins in transiently transfected Spodoptera derived insect cells.

71235
pIEx-4 DNA - Novagen
Novagen's pIEx vectors are designed for cloning and high-level expression of proteins in transiently transfected Spodoptera derived insect cells.

71242
pIEx-5 DNA - Novagen®
Novagen's pIEx vectors are designed for cloning and high-level expression of proteins in transiently transfected Spodoptera derived insect cells.

69659
pLysS DNA - Novagen

T6824
pPolh-FLAG™-1 Transfer Vector

E6155
pPolh-FLAG™-2 Transfer Vector

E8022
pRc/RSV Expression vector
set of expression vectors powered by either the CMV2 or the RSV promoter

P1243
pT7-FLAG™-2 Expression Vector

P9743
pT7-FLAG™-4 Expression Vector

P7229
pT7Blue Uncut Vector

70928
pTriEx-1.1 Hygro DNA - Novagen

70931
pTriEx-3 Neo DNA - Novagen

70824
pTriEx-4 DNA - Novagen

70933
pTriEx-4 Neo DNA - Novagen

71405-M
Rosetta 2 Competent Cell Set - Novagen

71402-M
Rosetta 2 Competent Cells - Novagen

Rosetta host strains are BL21 derivatives designed to enhance the expression of eukaryotic proteins that contain codons rarely used in E. coli.

71397
Rosetta 2(DE3) Competent Cells - Novagen
Novagen's Rosetta 2 host strains are BL21 derivatives designed to enhance the expression of eukaryotic proteins that contain codons rarely used in *E. coli*.

71400-M
Rosetta 2(DE3) Singles Competent Cells - Novagen
Novagen's Rosetta 2 host strains are BL21 derivatives designed to enhance the expression of eukaryotic proteins that contain codons rarely used in *E. coli*.

71404-M
Rosetta 2(DE3)pLacI Competent Cells - Novagen
Rosetta strains are BL21 derivatives designed to enhance the expression of eukaryotic proteins that contain codons rarely used in E. coli. Contains the pLacI plasmid producing extra Lac repressor.

71403-M
Rosetta 2(DE3)pLysS Competent Cells - Novagen
Novagen's Rosetta 2 (pLysS) host strains are BL21 derivatives designed to enhance the expression of eukaryotic proteins that contain codons rarely used in *E. coli* along with T7 lysozyme activity.

71401-M
Rosetta 2(DE3)pLysS Singles Competent Cells - Novagen
Novagen's Rosetta 2 (pLysS) host strains are BL21 derivatives designed to enhance the expression of eukaryotic proteins that contain codons rarely used in *E. coli* along with T7 lysozyme activity.

70953
Rosetta Competent Cells - Novagen
Rosetta host strains are BL21 derivatives designed to enhance the expression of eukaryotic proteins that contain codons rarely used in E. coli.

71432-M
Rosetta-gami 2 Competent Cell Set - Novagen

71350-M
Rosetta-gami 2 Competent Cells - Novagen
Rosetta-Gami 2 host strains allows for enhanced disulfide bond formation and enhanced expression of eukaryotic proteins that contain codons rarely used in E. coli.

71351-M
Rosetta-gami 2(DE3) Competent Cells * - Novagen
Rosetta-Gami 2 host strains allows for enhanced disulfide bond formation and enhanced expression of eukaryotic proteins that contain codons rarely used in E. coli.

71353-M

Rosetta-gami 2(DE3)pLacI Competent Cells - Novagen
Rosetta-Gami 2 strains allows for enhanced disulfide bond formation and enhanced expression of eukaryotic proteins. Contains the pLacI plasmid producing extra Lac repressor.

71177-M
Rosetta-gami B Competent Cell Set - Novagen

71135
Rosetta-gami B Competent Cells - Novagen
Rosetta-gami B strains combine the key features of BL21, Origami, and Rosetta to enhance both the expression of eukaryotic proteins and the formation of target protein disulfide bonds.

71136
Rosetta-gami B(DE3) Competent Cells - Novagen
Rosetta-gami B strains combine the key features of BL21, Origami, and Rosetta to enhance both the expression of eukaryotic proteins and the formation of target protein disulfide bonds.

71138
Rosetta-gami B(DE3)pLacI Competent Cells - Novagen
Rosetta-gami B strains combine the key features of BL21, Origami, and Rosetta to enhance the expression of eukaryotic proteins. Contains the pLacI plasmid producing extra Lac repressor.

71137
Rosetta-gami B(DE3)pLysS Competent Cells - Novagen
Rosetta-gami B strains combines the key features of BL21, Origami, and Rosetta to enhances the expression of eukaryotic proteins. T7 lysozyme expression suppresses basal T7 expression.

70954
Rosetta(DE3) Competent Cells - Novagen
Rosetta host strains are BL21 derivatives designed to enhance the expression of eukaryotic proteins that contain codons rarely used in E. coli.

70920
Rosetta(DE3)pLacI Competent Cells - Novagen
Rosetta strains are BL21 derivatives designed to enhance the expression of eukaryotic proteins that contain codons rarely used in E. coli. Contains the pLacI plasmid producing extra Lac repressor.

70956-M
Rosetta(DE3)pLysS Competent Cells - Novagen
Rosetta host strains are BL21 derivatives designed to enhance the expression of eukaryotic proteins that contain codons rarely used in E. coli. T7 lysozyme expression suppresses basal T7 expression.

71079
RosettaBlue Competent Cell Set - Novagen

71058
RosettaBlue Competent Cells - Novagen

RosettaBlue host strains are NovaBlue derivatives that combine high transformation efficiency and with enhanced expression of eukaryotic proteins that contain codons rarely used in E. coli.

71059-M
RosettaBlue(DE3) Competent Cells - Novagen
RosettaBlue host strains are NovaBlue derivatives that combine high transformation efficiency and with enhanced expression of eukaryotic proteins that contain codons rarely used in E. coli.

CMC0007
SIG10 5a Chemically Competent Cells
for DNA plasmid production

CMC0001
SIG10 Chemically Competent Cells
for protein expression and DNA plasmid production

CMC0004
SIG10 MAX Electrocompetent Cells
for general cloning & library production

S3139
Sodium phosphate monobasic
BioReagent, for molecular biology, anhydrous, ≥98%

70043
T7Select® 1-2b DNA

70548
T7Select® 10-3b DNA

70040
T7Select® 415-1 DNA

70625
Tuner (DE3)pLacI Competent Cells - Novagen®
Tuner host strains are lacZY deletion mutants of BL21, which enable adjustable levels of protein expression throughout all cells in a culture. Contains the pLacI plasmid producing extra Lac repressor.

70624
Tuner(DE3)pLysS Competent Cells - Novagen
Tuner host strains are lacZY deletion mutants of BL21, which enable adjustable levels of protein expression throughout all cells in a culture. T7 lysozyme expression suppresses basal T7 expression.

UC0E04
UCOE® Dual Expression Hygromycin Vector Set

UC0E03
UCOE® Dual Expression Puromycin Vector Set

5.04867
UCOE® Expression Vector - Human 4kb Puro Set - Novagen®

5.04866
UCOE® Expression Vector - Mouse 3.2 kb Hygro Set - Novagen®

5.04865
UCOE® Expression Vector - Mouse 3.2 kb Puro Set - Novagen®

UC0E05
UCOE® Intermediate Vector Set

UC0E01
UCOE® Single Expression Puromycin Vector Set

Transfection

What is transfection? Transfection is the process of introducing genetic material, including DNA, RNA, and proteins, into eukaryotic cells for gene expression, gene knockdown, and many other applications. Transfection uses various physical, chemical, or biological methods and reagents to facilitate the transfer of the foreign material. Comparatively, bacterial transformation and **viral transfection (viral transduction)** are similar techniques that are suitable for transferring materials into different cell types for diverse downstream applications.

COMPONENTS

The introduction of plasmid DNA or RNA into mammalian and insect cells has become routine in research labs. High-efficiency transfection in nearly any cell type can be achieved thanks to the wide variety of reagents that are currently available. We cover a variety of popular transfection reagents, including our Escort™ lipid reagents, NeuroPorter™ neuronal-specific reagent, X-tremeGENE™, and Genejuice transfection reagents. For help selecting the right reagent for your cells, explore our wide selection of transfection reagents within the product selection table or our **Molecular Cloning and Protein Expression** resource page for related products.

X-TREMEGENE™ ROCHE TRANSFECTION REAGENTS

With a joint commitment to enable your next discovery, we exclusively offer the complete portfolio of Roche X-tremeGENE™ transfection reagents. Roche, X-tremeGENE™, transfection reagents provide efficient delivery of DNA, siRNA, miRNA, and CRISPR/Cas9 components for common and difficult-to-transfect cell lines. The X-tremeGENE™ products are easy to optimize for your application needs and produce minimal toxicity.

50553
a-Tri-Calcium phosphate
Reagent for transient & stable DNA transfections

D9542
DAPI
for nucleic acid staining

MBD0015
DAPI ready made solution
For Nuclear counterstain in immunoflourecence microscopy, High Content Screening (HCS), Chromosome staining and flow cytometry (FACS)., 1 mg/mL

D8418
Dimethyl sulfoxide
for molecular biology

11202375001
DOTAP Liposomal Transfection Reagent
>99% (TLC), liquid, suitable for transfection

G418-RO
G-418 Solution
solution, =98% (TLC), suitable for transfection

10843555001
Hygromycin B
from *Streptomyces hygroscopicus*

NPT01
NeuroPorter™ Transfection Kit
Lipid formulation for nucleic acid transfections in neuronal and glial cells

72622-M
NovaCHOice™ Transfection Kit
Optimized transfection reagent specifically developed for mammalian protein production in chinese hamster ovary (CHO) cells.

TR-1003
Polybrene Infection / Transfection Reagent
A highly efficient method of gene transfer into mammalian cells leveraging infection with retroviral vectors.

XTG360-RO
X-tremeGENE™ 360 Transfection Reagent
Universal polymer reagent for delivering DNA, siRNA, miRNA and CRISPR/RNP to many cell lines

XTG9-RO
X-tremeGENE™ 9 DNA Transfection Reagent
Polymer reagent for transfecting common cell lines

XTGHP-RO
X-tremeGENE™ HP DNA Transfection Reagent
High-performance polymer reagent for transfecting many cell lines

SITRAN-RO
X-tremeGENE™ siRNA Transfection Reagent
Polymer reagent for delivering siRNA to common cell lines

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