

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.

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Description

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., Expression host strains for pETBlue and pTriEx vectors are IDE3 lysogens that also carry the compatible pLacI plasmid, encoding the lac repressor. The pLacI plasmid confers chloramphenicol resistance and provides enough lac repressor to inhibit transcription from the T7lac promoter in the absence of inducer. The NovaBlue host strain is recommended for initial cloning with pETBlue and pTriEx vectors due to its superior transformation efficiency and high yields of high-quality plasmid DNA. Note that these strains are not recommended for use with pET, pACYCDuet, pCDF, pRSF, pCOLADuet or pETcoco vectors. Rosetta 2 strains are BL21 derivatives designed to alleviate codon bias when expressing heterologous proteins in E. coli. The cells carry a chloramphenicol-resistant plasmid with the tRNA genes that decode seven rare codons (AGA, AGG, AUA, CUA, GGA, CCC, and CGG) to improve the yield of full-length proteins. The tRNA genes are driven by their native promoters. In Rosetta 2(DE3)pLacI, the rare tRNA genes are present on the same plasmid that carries the lac repressor gene. DE3 indicates that the host is a lysogen of lambdaDE3, and therefore carries a chromosomal copy of the T7 RNA polymerase gene under control of the lacUV5 promoter. Such strains are suitable for production of protein from target genes cloned in pET vectors by induction with IPTG., Genotype: F-ompT hsdSB (rB- mB-) gal dcm (DE3) pLacIRARE2 (CamR) This product contains genetically modified organisms (GMO). Within the EU GMOs are regulated by Directives 2001/18/EC and 2009/41/EC of the European Parliament and of the Council and their national implementation in the member States respectively. This legislation obliges us to request certain information about you and the establishment where the GMOs are being handled. Click here for Enduser Declaration (EUD) Form.