



71463 pET-49b(+) DNA

Novagen®

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| Product number | Size  | Price / Available to Ship |
|----------------|-------|---------------------------|
| 71463-3        | 10 µg | USD 195.00                |

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Prices are subject to change without notice.

The pET-49b(+) vector is designed for cloning and high-level expression of target proteins fused with the 220 aa schistosomal glutathione-S-transferase (GST•Tag™) protein that is cleavable with the human rhinovirus (HRV) 3C protease (1). Schistosomal glutathione-S-transferase (GST) is commonly used as a fusion partner when expressing proteins in *E. coli* (2). The GST•Tag sequence has been reported to enhance the production and in some cases the solubility of its fusion partners. When expressed in a soluble, properly folded form, GST•Tag fusion proteins can be purified with immobilized glutathione. Gentle elution is achieved with buffers containing reduced glutathione. Quantification of soluble GST fusions is also possible by assaying the glutathione-S-transferase activity. Cloning sites are available for producing fusion proteins also containing a cleavable N-terminal His•Tag® sequence for detection and purification. The plasmid contains a strong T7lac promoter, optimized RBS, the coding sequence for the HRV 3C protease cleavage site (LeuGluValLeuPheGlnGlyPro) for N-terminal fusion tag removal and a multiple cloning site that contains restriction enzyme sites found in many other Novagen expression vectors to facilitate insert transfer. An optional C-terminal S•Tag™ coding sequence is compatible with purification, detection, and quantification (3).

The pET Vectors are supplied as purified plasmid DNA (10 µg). Each order of pET DNA also includes an Induction Control strain (supplied as a glycerol stock). Please contact technical service if you need additional information.

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#### Product information

Fusion tag His•Tag, GST•Tag, S•Tag

#### Store and ship information

Storage ≤ -70°C

Ship

Shipped with Blue Ice or with Dry Ice  
Standard Handling

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