3050 Spruce Street, St. Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Product Information

pT7-FLAG™-3 Expression Vector

Catalog Number **P9618**
Storage Temperature –20 °C

TECHNICAL BULLETIN

Product Description

The pT7-FLAG-3 Expression Vector is a 6153 bp *E. coli* expression vector used for cloning and cytoplasmic expression of a properly inserted open reading frame as an N-terminal FLAG fusion protein containing the FLAG® epitope (DYKDDDDK).[1] This vector requires the use *E. coli* cells containing the DE3 lysogen as a source of the T7 polymerase,[2] such as BL21(DE3)T1^{R} cells, Catalog Number B2935.

The N-terminal FLAG fusion protein may be detected using Monoclonal ANTI-FLAG® M2, Catalog Number F3165, and purified using the ANTI-FLAG M2 Affinity Gel, Catalog Number A2220. The ampR and kanR antibiotic resistance genes are both present for selection flexibility in *E. coli.*

See the chart below for map positions of the features in the pT7-FLAG-3 vector.

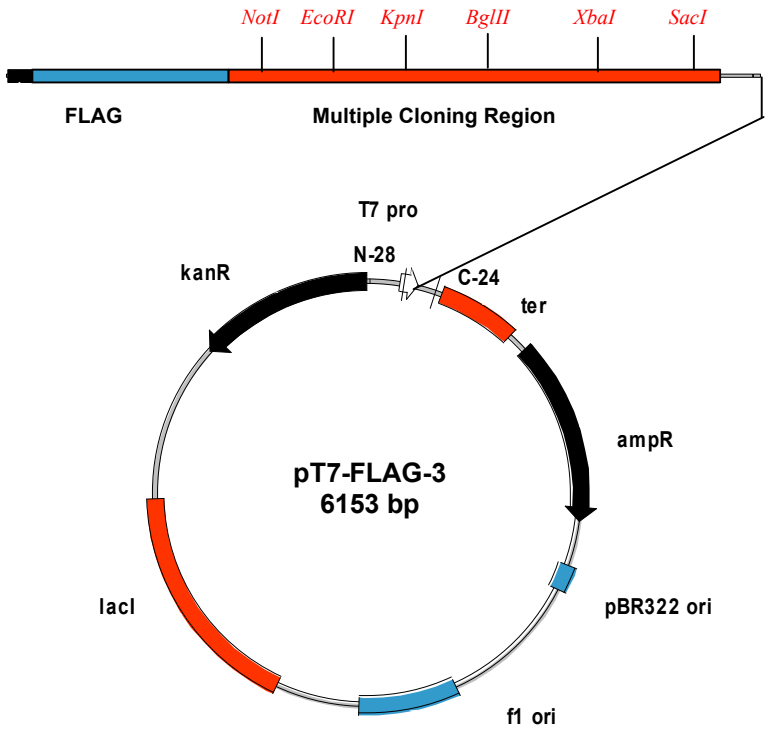
Reagents Provided

pT7-FLAG-3 Expression Vector
Catalog Number P8492

pT7-FLAG-3-BAP Control Plasmid
Catalog Number P8242

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.



PT7-FLAG-3 Feature	Map Position
pT7 Promoter	137-154
lacO	157-182
FLAG	223-243
MCS	250-295
T1/T2 ter.	336-706
Amp	798-1658
pBR322 ori	1870-1989
f1 ori	2653-3116
lacI	3509-4591
Kan	5335-6148

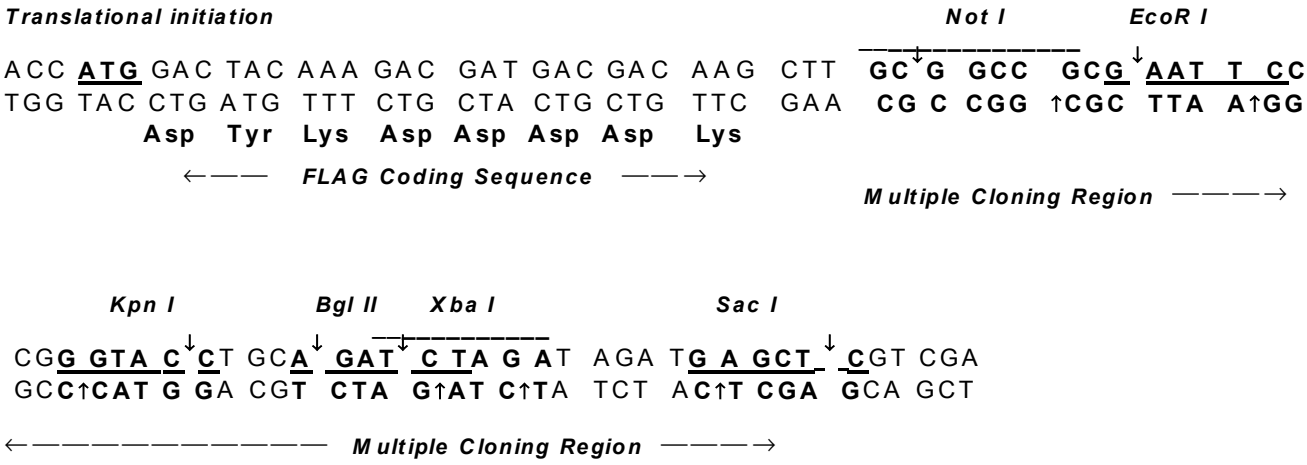
Storage/Stability
This product ships on dry ice and storage at –20 °C is recommended.

References

1. Hopp, T.V., et al., *BioTechnology,* **6**, 1204-1210 (1988).
2. Studier F.W., et.al., *Journal of Molecular Biology*, **79**, 115-131 (1986).

Nucleotide Sequence of the Multiple Cloning Region pT7-FLAG-3 Expression Vector

Sequence Range: 217 to 300 bp



Academic and Non-Profit Laboratory Assurance Letter
The T7 system is based on technology developed at Brookhaven National Laboratory under contract with the U.S. Department of Energy and is the subject of U.S. Patent No. 5,693,489 (expiration date, December 2, 2014) assigned to Brookhaven Science Associates, LLC. (BSA). BSA will grant a nonexclusive license for the use of this technology, including the enclosed material, based upon the following assurances:
1. These materials are to be used for noncommercial research purposes only. A separate license is required for any commercial use, including use of these materials for research purposes or production purposes by any commercial entity. Information about commercial licenses may be obtained from the Office of Technology Commercialization and Partnerships, Brookhaven National Laboratory, Bldg. 490-C, P.O. Box 5000, Upton, New York 11973-5000, telephone (631)-344-7134.
2. No materials that contain the cloned copy of T7 gene 1, the gene for T7 RNA polymerase, may be distributed further to third parties outside of your laboratory, unless the recipient receives a copy of this license and agrees to be bound by its terms. This limitation applies to strains of BL21(DE3), BL21(DE3)pLysS, and BL21(DE3)pLysE, and any derivatives.
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RS,PHC 11/10-1