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Product Information

p3XFLAG-CMV™-8 Expression Vector

Catalog Number **E9908**
Storage Temperature –20 °C

Product Description

p3XFLAG-CMV-8 Expression Vector is a 4.8 kb derivative of pCMV5[1] used to establish expression of N-terminal 3XFLAG™ fusion proteins in mammalian cells. The vector encodes three adjacent FLAG® epitopes (Asp-Tyr-Lys-Xaa-Xaa-Asp) upstream of the multiple cloning region. This results in increased detection sensitivity using ANTI-FLAG® M2 antibody.[2] The third FLAG epitope includes the enterokinase recognition sequence, allowing cleavage of the 3XFLAG peptide from the purified fusion protein. The preprotrypsin leader sequence[3] precedes the 3XFLAG sequence. The promoter-regulatory region of the human cytomegalovirus[4,5] drives transcription of FLAG-fusion constructs.

p3XFLAG-CMV-8 Expression Vector is a shuttle vector for *E. coli* and mammalian cells. Efficiency of replication is optimal when using an SV40 T antigen-expressing host, such as COS cells.

p3XFLAG-CMV-7-BAP Control Plasmid is a 6.2 kb derivative of pCMV5[1] used for transient intracellular expression of N-terminal 3XFLAG bacterial alkaline phosphatase fusion protein in mammalian cells. The vector encodes three adjacent FLAG epitopes (Asp-Tyr-Lys-Xaa-Xaa-Asp) upstream of the multiple cloning region[2]. This results in increased detection sensitivity using ANTI-FLAG M2 antibody.[3] The third FLAG epitope includes the enterokinase recognition sequence, allowing cleavage of the 3XFLAG peptide from the purified fusion protein.

The promoter-regulatory region of the human cytomegalovirus[4] drives transcription of FLAG-fusion constructs.

p3XFLAG-CMV-7-BAP Control Plasmid is a shuttle vector for *E. coli* and mammalian cells. Efficiency of replication is optimal when using an SV40 T antigen-expressing host, such as COS cells.

Map positions of key features in the p3XFLAG-CMV-8 Expression Vector and the p3XFLAG-CMV-7-BAP Control Plasmid can be found at www.sigma.com/vectormaps .

Components

- p3XFLAG-CMV-8 Expression Vector 20 µg
  Catalog Number E4151
  Supplied as 0.5 mg/ml in 10 mM Tris-HCl, pH 8.0, 1 mM EDTA.
- p3XFLAG-CMV-7-BAP Control Plasmid 20 µg
  Catalog Number C7472
  Supplied as 0.5 mg/ml in 10 mM Tris-HCl, pH 8.0, 1 mM EDTA,.

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.

Storage/Stability

Store at –20 °C

References

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3. Thomsen, D.R., *et al.,* Proc. Natl. Acad. Sci. USA, **81**, 659-663 (1984)
4. Miceli, R.M., *et al., J. Immunol. Methods*, **167**, 279-287 (1994)
5. Chapman, B.S., *et al.,* Nucl. Acids Res., **19,** 3979-3986 (1991)
6. Stevenson, B.J., *et al., Nucl. Acids Res*., **21**, 8307-8330 (1986)

This product is covered by the following patents owned by Sigma-Aldrich Co. LLC: US6,379,903, US7,094,548, JP4405125,EP1220933, CA2386471 and AU774216.

RC,PHC 10/13-1