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Product Information

p3XFLAG-Myc-CMV™-23 Expression Vector

Catalog Number **E9158** Storage Temperature –20 °C

Product Description

The p3XFLAG-Myc-CMV-23 Expression Vector is a 4.8 kb derivative of pCMV5¹ used to establish transient expression of secreted, dual-tagged N-terminal 3XFLAG™ and C-terminal *c-myc* fusion proteins in mammalian cells. The vector encodes three adjacent FLAG® epitopes (Asp-Tyr-Lys-Xaa-Xaa-Asp) and a *c-myc* epitope (EQKLISEEDL)² upstream and downstream of the multiple cloning sites, respectively. The third FLAG epitope includes the enterokinase recognition sequence, allowing cleavage of the 3XFLAG™ peptide from the purified fusion protein. The incorporation of 3XFLAG in the expression vector results in increased detection sensitivity using ANTI-FLAG® M2 antibody.³

The promoter-regulatory region of the human cytomegalovirus^{4,5} drives transcription of FLAG and *c-myc* fusion constructs.

p3XFLAG-Myc-CMV-23 Expression Vector is a shuttle vector for *E. coli* and mammalian cells. Efficiency of replication is optimal when using an SV40 T antigenexpressing host, such as COS cells.

The p3XFLAG-CMV-7-BAP Control Plasmid is a 6.2 kb derivative of pCMV5¹ 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 region². 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 cytomegalovirus⁴ 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 antigenexpressing host, such as COS cells.

Map positions of key features in the p3XFLAG-Myc-CMV-23 Expression Vector and the p3XFLAG-CMV-7-BAP Control Plasmid can be found at www.sigma.com/vectormaps.

Components

- p3XFLAG-Myc-CMV-23 Expression Vector 20 μg Catalog Number E6026 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. Miceli, R.M., et al., J. Immunol. Methods, **167**, 279-287 (1994)
- 4. Hernan, R., et al., Biotechniques, **28**, 789-793 (2000)
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- Chapman, B.S., et al., Nucl. Acids Res., 19, 3979-3986 (1991)

FLAG and ANTI-FLAG are registered trademarks, and p3XFLAG-Myc-CMV, p3XFLAG-CMV and 3XFLAG are trademarks, of Sigma-Aldrich Co. LLC

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.

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