

Product Information

pFLAG-CMV™-5.1 Expression Vector

Catalog Number **E6908**

Storage Temperature -20 °C

Product Description

The pFLAG-CMV-5.1 Expression Vector is a 4.7 kb derivative of the pCMV5 transient expression vector¹, used for establishing transient intracellular expression of C-terminal FLAG® fusion proteins in mammalian cells.

The promoter-regulatory region of the human cytomegalovirus^{2,3} drives transcription of FLAG-fusion constructs. The multiple cloning region of the pFLAG-CMV-5.1 vector is not preceded by a translational initiation signal. **A translational start sequence⁴ must be included with the insert DNA.** The multiple cloning region of the pFLAG-CMV-5.1 vector is compatible with other CMV vectors.

pFLAG-CMV-5.1 is a shuttle vector for *E. coli* and mammalian cells. Efficiency of replication and genomic integration is optimal when using an SV40 T antigen-expressing host, such as COS cells.

The pFLAG-CMV-5b-BAP Control Plasmid is a 6.0 kb derivative of the pCMV5 transient expression vector¹ for intracellular expression of C-terminal FLAG bacterial alkaline phosphatase fusion protein in mammalian cells.

The promoter-regulatory region of the human cytomegalovirus² drives transcription of FLAG-BAP fusion constructs.

pFLAG-CMV-5b-BAP Control Plasmid is a shuttle vector for *E. coli* and mammalian cells. SV40 replication origin results in most efficient replication in COS cells.

Map positions of key features in the pFLAG-CMV-5.1 Expression Vector and the pFLAG-CMV-5b-BAP Control Plasmid can be found at www.sigma.com/vectormaps.

Components

- pFLAG-CMV-5.1 Expression Vector 20 µg
Catalog Number E7901
Supplied as 0.5 mg/ml in 10 mM Tris-HCl, pH 8.0, 1 mM EDTA.
- pFLAG-CMV-5b-BAP Control Plasmid 20 µg
Catalog Number P5225
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

1. Andersson, S., *et al.*, *J. Biol. Chem.*, **264**, 8222-8229 (1989)
2. Thomsen, D.R., *et al.*, *Proc. Natl. Acad. Sci. USA*, **81**, 659-663 (1984)
3. Chapman, B.S., *et al.*, *Nucl. Acids Res.*, **19**, 3979-3986 (1991)
4. Kozak, M., *Nature*, **308**, 241-246 (1984)

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