

## Product Information

### pFLAG-Myc-CMV™-19 Expression Vector

Catalog Number **E8658**

Storage Temperature  $-20\text{ }^{\circ}\text{C}$

#### Product Description

The pFLAG-Myc-CMV-19 Expression Vector is a 4.7 kb derivative of pCMV5<sup>1</sup> used to establish transient expression of secreted, dual-tagged N-terminal FLAG<sup>®</sup> and C-terminal *c-myc* fusion proteins in mammalian cells. The vector encodes the FLAG epitope (Asp-Tyr-Lys-Xaa-Xaa-Asp) and a *c-myc* epitope (EQKLISEEDL)<sup>2</sup> upstream and downstream of the multiple cloning sites, respectively.

The promoter-regulatory region of the human cytomegalovirus<sup>3</sup> drives transcription of FLAG and *c-myc* fusion constructs. The preprotrypsin leader sequence<sup>4</sup> precedes the FLAG sequence.

pFLAG-Myc-CMV-19 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.

The pFLAG-CMV-1-BAP Control Plasmid is a 6.2 kb - derivative of the pCMV5 transient expression vector<sup>1</sup> used for expression and secretion of N-terminal FLAG bacterial alkaline phosphatase fusion proteins in mammalian cells. Preprotrypsin leader sequence<sup>2</sup> precedes the FLAG sequence.

The promoter-regulatory region of the human cytomegalovirus<sup>3</sup> drives transcription of FLAG-fusion constructs.

pFLAG-CMV-1-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-Myc-CMV-19 Expression Vector and the pFLAG-CMV-1-BAP Control Plasmid can be found at

[www.sigma.com/vectormaps](http://www.sigma.com/vectormaps).

#### Components

- pFLAG-Myc-CMV-19 Expression Vector 20  $\mu\text{g}$   
Catalog Number E5526  
Supplied as 0.5 mg/ml in 10 mM Tris-HCl, pH 8.0, 1 mM EDTA.
- pFLAG-CMV-1-BAP Control Plasmid 20  $\mu\text{g}$   
Catalog Number P4975  
Supplied as 0.5 mg/ml in 10 mM Tris-HCl, pH 8.0, 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  $-20\text{ }^{\circ}\text{C}$

#### References

1. Andersson, S., *et al.*, *J. Biol. Chem.*, **264**, 8222-8229 (1989)
2. Campbell, A.M., *et al.*, *J. Biol. Chem.*, **267**, 9321-9325 (1992)
3. Thomsen, D.R., *et al.*, *Proc. Natl. Acad. Sci. USA*, **81**, 659-663 (1984)
4. Stevenson, B.J., *et al.*, *Nucl. Acids Res.*, **21**, 8307-8330 (1986)

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