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

pFLAG-Myc-CMV™-20 Expression Vector

Catalog Number **E8783**
Storage Temperature –20 °C

Product Description

The pFLAG-Myc-CMV-20 Expression Vector is a 4.7 kb derivative of pCMV5[1] used to establish transient expression of intracellular, dual-tagged N-terminal Met-FLAG and C-terminal *c-myc*[2] fusion proteins in mammalian cells. The vector encodes the FLAG® epitope (Asp-Tyr-Lys-Xaa-Xaa-Asp) and a *c-myc* epitope (EQKLISEEDL)[2] upstream and downstream of the multiple cloning sites, respectively.

The promoter-regulatory region of the human cytomegalovirus[3] drives transcription of FLAG and *c-myc* fusion constructs.

pFLAG-Myc-CMV-20 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™-2-BAP Control Plasmid is a 6.1 kb derivative of the pCMV5 transient expression vector[1] for intracellular expression of N-terminal Met-FLAG bacterial alkaline phosphatase fusion protein in mammalian cells.

The promoter-regulatory region of the human cytomegalovirus[2] drives transcription of FLAG-BAP constructs.

pFLAG-CMV-2-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-20 Expression Vector and the pFLAG-CMV-2-BAP Control Plasmid can be found at **www.sigma.com/vectormaps** .

Components

- pFLAG-Myc-CMV-20 Expression Vector 20 µg
  Catalog Number E5651
  Supplied as 0.5 mg/ml in 10 mM Tris-HCl, pH 8.0, 1 mM EDTA.
- pFLAG-CMV-2-BAP Control Plasmid 20 µg
  Catalog Number P5100
  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. Campbell, A.M., *et al., J. Biol. Chem.*, **267**, 9321-9325 (1992)

AH,PHC 08/10-1