Product Information

pFLAG-Myc-CMV™-21 Expression Vector

Catalog Number E8908
Storage Temperature –20 °C

Product Description
The pFLAG-Myc-CMV-21 Expression Vector is a 6.3 kb derivative of pCMV5\(^1\) used to establish transient or stable secreted expression of dual-tagged N-terminal FLAG\(^2\) and C-terminal c-myc\(^3\) fusion proteins in mammalian cells. The vector encodes the FLAG epitope (Asp-Tyr-Lys-Xaa-Xaa-Asp) and a c-myc epitope (EQKLISEEDL)\(^4\) upstream and downstream of the multiple cloning sites, respectively. The preprotrypsin leader sequence\(^5\) precedes the FLAG sequence.

The promoter-regulatory region of the human cytomegalovirus\(^2\) drives transcription of FLAG and c-myc fusion constructs. The aminoglycoside phosphotransferase II gene (Neo) confers resistance to aminoglycosides such as G 418,\(^5\) allowing for selection of stable transfectants.

pFLAG-Myc-CMV-21 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-3-BAP Control Plasmid is a 7.7 kb derivative of pCMV5\(^1\) used for transient expression and secretion of N-terminal FLAG bacterial alkaline phosphatase fusion protein in mammalian cells.

The promoter-regulatory region of the human cytomegalovirus\(^2\) drives transcription of bacterial alkaline phosphatase. The preprotrypsin leader sequence\(^5\) precedes the FLAG sequence. The aminoglycoside phosphotransferase II gene\(^4\) (Neo) confers resistance to aminoglycosides such as G 418.\(^5\)

pFLAG-CMV-3-BAP Control Plasmid 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.

Map positions of key features in the pFLAG-Myc-CMV-21 Expression Vector and the pFLAG-CMV-3-BAP Control Plasmid can be found at [www.sigma.com/vectormaps](http://www.sigma.com/vectormaps).

Components
- **pFLAG-Myc-CMV-21 Expression Vector** 20 μg
  Catalog Number E5776
  Supplied as 0.5 mg/ml in 10 mM Tris-HCl, pH 8.0, 1 mM EDTA.
- **pFLAG-CMV-3-BAP Control Plasmid** 20 μg
  Catalog Number C3972
  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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