

Product Information

pFLAG-CMV™-5a Expression Vector

Catalog Number **E7523**

Store at -20 °C

Product Description

Versions of the pFLAG-CMV-5 expression vector for the three translational reading frames preceding the FLAG® coding sequence are provided. These are designated pFLAG-CMV-5a (Product No. E 7523), pFLAG-CMV-5b (Product No. E 7648), and pFLAG-CMV-5c (Product No. E 7773).

pFLAG-CMV-5a expression vector is a 4.7 kb derivative of the pCMV5 transient expression vector¹ for intracellular expression of C-terminal FLAG fusion proteins in mammalian cells.

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

The multiple cloning region of the pFLAG-CMV-5a expression vector is not preceded by a translational

initiation signal. A translational start sequence³ must be included with the insert DNA.

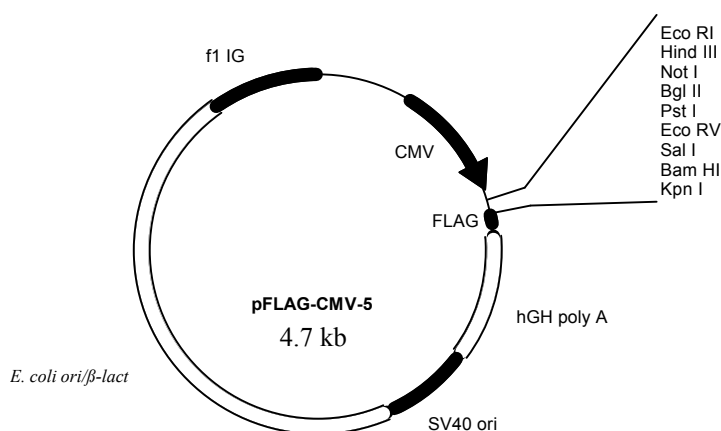
pFLAG-CMV-5a expression vector is a shuttle vector for *E. coli* and mammalian cells. SV40 replication origin results in most efficient replication in COS cells.

PFLAG-CMV-5a expression vector is supplied in 1 mM Tris, 0.1 mM EDTA, pH 8.

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. Kozak, M., Nature, **308**, 241 (1984)

pFLAG-CMV-5a



Feature	Map Position
CMV promoter	419 - 909
CMV 30 sequencing primer	818 - 847
Multiple cloning region	912- 974
FLAG sequence	975 - 998
hGH poly A	1006 - 1631
CMV 24 sequencing primer	1066 - 1089
SV 40 ori	1652 - 2002
pBR322 ori/beta-lactamase	2031 - 4220
F1 Intragenic region	4221 - 4664

Nucleotide sequence of the pFLAG-CMV-5a multiple cloning region

Sequence Range: 912 to 1001

912 Eco R1 Hind3 Not1 Bgl2 Pst1 EcoRV
GAA TTC AAG CTT GCG GCC GCA GAT CTA TCG ATC TGC AGG ATA TCA >

957 Sal I Bam HI Kpn I
GTC GAC GGA TCC GGT ACC GAT TAC AAG GAC GAC GAT GAC AAG TAG>
 Asp Tyr Lys Asp Asp Asp Asp Lys
< FLAG coding sequence >

The underlined sequence GGTACCGAT is GGTACCAGAT in pFLAG-CMV-5b and GGTACCAAGAT in pFLAG-CMV-5c.

pFLAG-CMV-5a	GGT ACC GAT
pFLAG-CMV-5b	GGT ACC AGA T
pFLAG-CMV-5c	GGT ACC AAG AT

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