The vector sequence has been compiled using the information from sequence databases, published literature, and other sources, together with partial sequences obtained by Evrogen. This vector has not been completely sequenced.

Vector description

pFusionRed-cadherin is a mammalian expression vector encoding FusionRed-VE-cadherin fusion protein. The vector can be used for fluorescent labeling of cadherin in living cells.

FusionRed coding sequences are optimized for high expression in mammalian cells [Haas et al. 1996]. Human VE-cadherin is fused to the FusionRed N-terminus.

FusionRed vector can be used as a source of FusionRed-VE-cadherin hybrid sequence. The vector backbone contains unique restriction sites that permit its excision and further insertion into expression vector of choice.

Note: The plasmid DNA was isolated from dam- methylated E. coli. Therefore some restriction sites are blocked by methylation. If you wish to digest the vector using such sites you will need to transform the vector into a dam+ host and make fresh DNA.

Expression in mammalian cells

pFusionRed-cadherin vector can be transfected into mammalian cells by any known transfection method. CMV promoter provides strong, constitutive expression of the FusionRed-VE-cadherin fusion in eukaryotic cells. If required, stable transformants can be selected using G418 [Gorman 1985].

Propagation in E. coli

Suitable host strains for propagation in E. coli include DH5α, HB101, XL1-Blue, and other general purpose strains. Plasmid incompatibility group is pMB1/ColE1. The vector confers resistance to kanamycin (30 µg/ml) to E. coli hosts. Copy number in E. coli is about 500.

References


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The CMV promoter is covered under U.S. Patents 5,168,062 and 5,385,839, and its use is permitted for research purposes only. Any other use of the CMV promoter requires a license from the University of Iowa Research Foundation, 214 Technology Innovation Center, Iowa City, IA 52242.

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