



pEGFP-N2 Mammalian Expression Vector

pEGFP-N2 encodes a green fluorescent protein from *Aequorea coerulescens*. pEGFP-N2 is designed for studies in mammalian systems. This vector allows expression of a protein of interest as an N-terminal fusion to EGFP. The fusion vector can also be used as a cotransfection marker since the unmodified vector will express fluorescent protein. The fluorescent protein coding sequence in this construct has been human-codon-optimized for efficient expression and enhanced brightness in mammalian cells.

Fusions to the N terminus of EGFP retain the fluorescent properties of the native protein allowing the localization of the fusion protein in vivo . The target gene should be cloned into pEGFP-N2 so that it is in frame with the EGFP coding sequences, with no intervening in-frame stop codons. The inserted gene should include the initiating ATG codon. The recombinant EGFP vector can be transfected into mammalian cells using any standard transfection method. If required, stable transformants can be selected using G418. pEGFP-N2 can also be used simply to express EGFP in a cell line of interest (e.g., as a transfection marker).

Catalog No.	514014
Size	
Product Category	Plasmid / Vector
Storage/Stability	-20°C/2 years
Shipping	Gel Packs