

## pEGFP-N1 mammalian cell expression vector

Item No. : P6460

Specification: 2μg (20μL)

Save: -20° C

### Carrier information:

Promoter: CMV

Replicon: pUC ori, fl ori

Terminator: SV40 ploy (A)

Carrier aliases: pEGFPN1, pEGFPN1

Vector classification: mammalian cell expression vector, fluorescent protein reporter vector

Vector size: 4733bp

Carrier tag: Enhanced fluorescent protein reporter gene EGFP

Prokaryotic resistance: Kanamycin

Screening marker: Neomycin /G418 genetic mycin

Clonal strain: DH5α

Host of expression: mammalian cells

Culture condition: 37°C, LB medium

5' sequencing primer: CMV-F: 5'-CGCAAATGGGCGGTAGGCGTG-3'

3' sequencing primer: EGFP-N: 5'-CGTCGCCGTCCAGCTCGACCAG-3'

Note: There are EcoR I, BamH I and other cleavage sites of MCS polyclonal enzyme in the vector.

### Introduction of the vector:

pEGFP-N1 encodes a redshift variant of wild-type GFP that has been optimized to have brighter fluorescence and higher expression in mammalian cells, (maximum excitation wavelength =488nm, maximum release wavelength =507nm). The EGFP gene encodes a sequence that contains more than 190 silent base variations, which is in line with human codon use preferences. One side of the EGFP sequence has been converted to the same translation initiation site as Kozak, further improving the efficiency of translation in eukaryotic cells.

### Vector map:

