

Product datasheet for MG217250

Ereg (NM_007950) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ereg (NM 007950) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Ereg
Synonyms: EPR

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG217250 representing NM_007950

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAGACGCTCCTGCCTCTTGGGTCTTGACGCTGCTTTGTCTAGGTTCCCACCTTCTACAGGCAGTTA
TCAGCACAACCGTGATCCCATCATGCATCCCAGGAGAATCCGAGGATAACTGTACCGCCTTAGTTCAGAT
GGAAGACGATCCCCGTGTGGCTCAAGTGCAGATTACAAAGTGTAGTTCTGACATGGACGGCTACTGCTTG
CATGGCCAGTGCATCTACCTGGTGGACATGAGAGAGAAATTCTGCAGATGTGAAGTGGGCTACACTGGTC
TGCGATGTGAGCACTTCTTTCTAACTGTTCACCAACCCTTGAGCAAAGAATACGTTGCGTTGACAGTGAT
TCTCATTTTCCTGTTTTCTCATCATAACCGCTGGATGCATATACTATTTCTGCAGATGGTACAAAAATCGA
AAAAGTAAAAAATCGAGGGAGGAATATGAGAGAGAGTGACCTCAGGGGACCCAGTGCTGCCACAGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217250 representing NM_007950

Red=Cloning site Green=Tags(s)

METLPASWVLTLLCLGSHLLQAVISTTVIPSCIPGESEDNCTALVQMEDDPRVAQVQITKCSSDMDGYCLHGQCIYLVDMREKFCRCEVGYTGLRCEHFFLTVHQPLSKEYVALTVILIFLFLIITAGCIYYFCRWYKNR

KSKKSREEYERVTSGDPVLPQV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



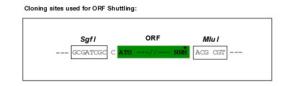
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

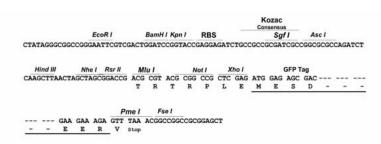
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

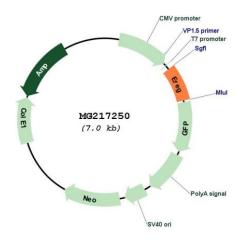


Cloning Scheme:





Plasmid Map:



ACCN: NM_007950

ORF Size: 486 bp



OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

- 1. Centrifuge at 5,000xg for 5min.
- 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
- 3. Close the tube and incubate for 10 minutes at room temperature.
- 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
- 5 Store the suspende

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 007950.2</u>, <u>NP 031976.1</u>

RefSeq Size: 4136 bp
RefSeq ORF: 489 bp
Locus ID: 13874
UniProt ID: Q61521
Cytogenetics: 5 E1

Gene Summary:

Ligand of the EGF receptor/EGFR and ERBB4. Stimulates EGFR and ERBB4 tyrosine phosphorylation (By similarity). Contributes to inflammation, wound healing, tissue repair, and oocyte maturation by regulating angiogenesis and vascular remodeling and by stimulating cell proliferation (PubMed:24631357).[UniProtKB/Swiss-Prot Function]