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Product datasheet for RC218706

EREG (NM_001432) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EREG (NM_001432) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EREG
Synonyms:	Ep; EPR; ER
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC218706 representing NM_001432
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCGCGGGGAGGAGGATGGAGATGCTCTGTGCCGGCAGGGTCCCTGCGCTGCTGCTCTGCCTGGGTT
TCCATCTTCTACAGGCAGTCCTCAGTACAACTGTGATTCCATCATGTATCCCAGGAGAGTCCAGTGATAA
CTGCACAGCTTTAGTTCAGACAGAAGACAATCCACGTGTGGCTCAAGTGTCAATAACAAAGTGTAGCTCT
GACATGAATGGCTATTGTTTGCATGGACAGTGCATCTATCTGGTGGACATGAGTCAAAACTACTGCAGGT
GTGAAGTGGGTTATACTGGTGTCCGATGTGAACACTTCTTTTTAACCGTCCACCAACCTTTAAGCAAAGA
ATATGTGGCTTTGACCGTGATTCTTATTATTTTGTTTCTTATCACAGTCGTCGGTTCCACATATTATTTC
TGCAGATGGTACAGAAATCGAAAAAGTAAAGAACCAAAGAAGGAATATGAGAGAGTTACCTCAGGGGATC
CAGAGTTGCCGCAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218706 representing NM_001432
Red=Cloning site Green=Tags(s)

MTAGRRMEMLCAGRVPALLLCLGFHLLQAVLSTTVIPSCIPGESSDNCTALVQTEDNPRVAQVSITKCSS
DMNGYCLHGQCIYLVDMSQNYCRCEVGYTGVRCEHFFLTVHQPLSKEYVALTVILIILFLITVVGSTYYF
CRWYRNRKSKEPKKEYERVTSGDPELPQV

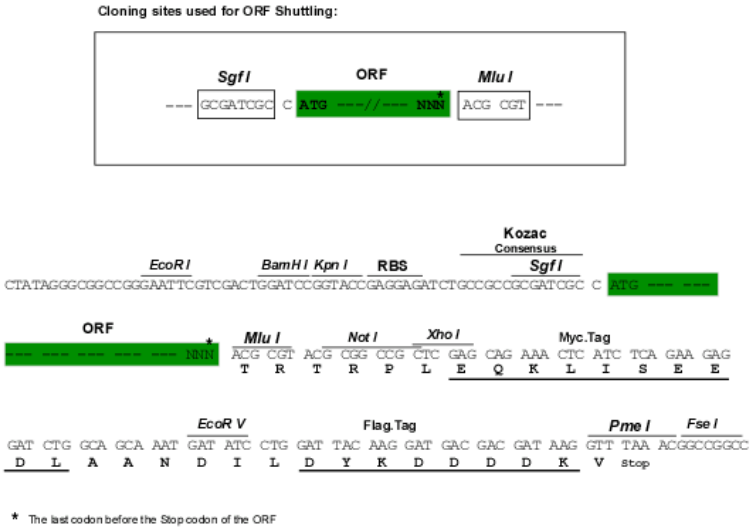
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6098_h01.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001432

ORF Size: 507 bp

OTI Disclaimer: 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. More info

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 suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_001432.3

RefSeq Size: 4627 bp

RefSeq ORF: 510 bp

Locus ID: 2069

UniProt ID: O14944

Cytogenetics: 4q13.3

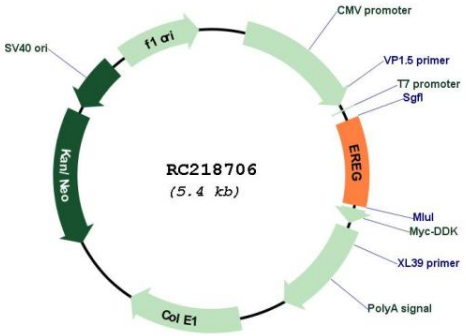
Protein Families: Secreted Protein, Transmembrane

Protein Pathways: ErbB signaling pathway

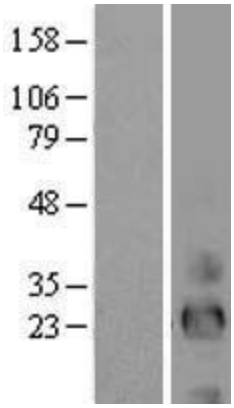
MW: 19.04 kDa

Gene Summary: This gene encodes a secreted peptide hormone and member of the epidermal growth factor (EGF) family of proteins. The encoded protein is a ligand of the epidermal growth factor receptor (EGFR) and the structurally related erb-b2 receptor tyrosine kinase 4 (ERBB4). The encoded protein may be involved in a wide range of biological processes including inflammation, wound healing, oocyte maturation, and cell proliferation. Additionally, the encoded protein may promote the progression of cancers of various human tissues. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RC218706



Western blot validation of overexpression lysate (Cat# [LY419939]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218706 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).