

Product datasheet for **RC230233**

MEPE (NM_001184694) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEPE (NM_001184694) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEPE
Synonyms:	OF45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230233 representing NM_001184694
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGAGTTTTCTGTGTGGGACTACTCCTTTTCAGTGTGACCTGGGCAGCACCAACATTTCAACCACAGA
 CTGAGAAAATAAGCAAAGCTGTGTGGAAGAGCAGAGGCAGGAAGAAAAACAAAGACAATATTGGTTT
 TCACCATTTGGGCAAGAGAATAAATCAAGAGCTATCATCTAAAGAAAATATTGTCCAGGAAAGAAAGAAA
 GATTTGTCCCTTTCTGAAGCCAGTGAAGAATAAGGGAAGTAGTAAATCTCAAAATTTTCACAAATAGAC
 AGAGACTGAATAAAGAATATAGTATCAGTAACAAAGAGAATACTCACAATGGCCTGAGGATGTCAATTTA
 TCCTAAGTCAACTGGGAATAAAGGGTTTGAGGATGGAGATGATGCTATCAGCAAACACATGACCAAGAA
 GAATATGGCGCAGCTCTCATCAGAAATAACATGCAACATATAATGGGGCCAGTGACTGCAATTAACCTCC
 TGGGGGAAGAAAACAAAGAGAACACACCTAGGAATGTTCTAAACATAATCCAGCAAGTATGAATTATGC
 TAAAGCACACTCGAAGGATAAAAAGAAGCCTCAAAGAGATTCCCAAGCCAGAAAAGTCCAGTAAAAAGC
 AAAAGCACCCATCGTATTCAACACAACATTGACTACCTAAAACATCTCTCAAAAGTCAAAAAATCCCCA
 GTGATTTTGAAGGCAGCGTTATACAGATCTTCAAGAGAGAGGGGACAATGATATATCTCCTTTTCAGTGG
 GGACGGCCAACCTTTTAAGGACATTCTGGTAAAGGAGAAGCTACTGGTCTGACCTAGAAGGCAAAGAT
 ATTCAAACAGGGTTTGCAGGCCAAGTGAAGCTGAGAGTACTCATCTTGACACAAAAAGCCAGGTTATA
 ATGAGATCCCAGAGAGAGAAGAAAATGGTGAAATACCATTGGAAGTGGGATGAACTGCGAAAGAGGC
 AGATGCTGTTGATGTCAGCCTTGTAGAGGGCAGCAACGATATCATGGGTAGTACCAATTTTAAGGAGCTC
 CCTGGAAGAGAAGAAAACAGAGTGGATGCTGGCAGCCAAAATGCTCACCAGGGAAGGTTGAGTTTCATT
 ACCCTCTGCACCCTCAAAGAGAAAAGAAAAGGCAAGTGTGATGTCAGCTGAAAGTACCAACTATAA
 TGAATTCCTAAAAATGGCAAAGGCAGTACCAGAAAGGGTGTAGATCATTCTAATAGGAACCAAGCAACC
 TTAATGAAAAACAAAGTTTCTAGTAAGGGCAAAGTCAAGGGCCTGCCATTCTCTCGTGGTCTTG
 ATAATGAAATCAAAAACGAAATGGATTCTTTAATGGCCCAAGTCATGAGAATATAATAACACATGGCAG
 AAAATATCATTATGTACCCACAGACAAAATAATTCTACAGGAATAAGGGTATGCCACAAGGGAAGGC
 TCCTGGGGTAGACAACCCATTCCAACAGGAGTTTGTTCCTGAGAGGGATGACAGTAGTGTGATCAT
 CTGACAGTGGCAGTTCAGTGAGAGCGATGGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230233 representing NM_001184694
 Red=Cloning site Green=Tags(s)

MRVFCVGLLLFSVTWAAPTFFQPQTEKTKQSCVEEQRQEEKNKDNIGFHHLGKRINQELSSKENIVQERKK
 DLSSLSEASENKGSKSQNYFTNRQRLNKEYSISNKENTHNLRLMSIYPKSTGNKGFEDGDDAISLKHLDQE
 EYGAALIRNNMQHIMGPVTAIKLLGEENKENTPRNVLNIIPASMNYAKAHSKDKKKPQRDSQAQKSPVKS
 KSTHRIQHNIDYKHLKSKYKIPDFEGSGYDLQERGDNDISPFSGDQPFKDIKPGKEATGPDLEGKD
 IQTGFAFPSEAESTHLDTKKPGYNEIPEREENGNTIGTRDETAKEADAVDVSLEGSNDIMGSTNFKEL
 PGREGNRVDAGSQNAHQKVEFHYPAPSKEKRKEGSSDAESTNYNEIPKNGKSTRKGVDSNRNQAT
 LNEKQRFPSKGSQGLPIPSRGLDNEIKNEMDSFNGPSHENIITHGRKYHYVPHRQNNSTRNKGMPPQKGG
 SWGRQPHSNRRFSSRRRDDSSSESDSGSSSESDGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001184694

ORF Size: 1575 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 custsupport@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. [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.

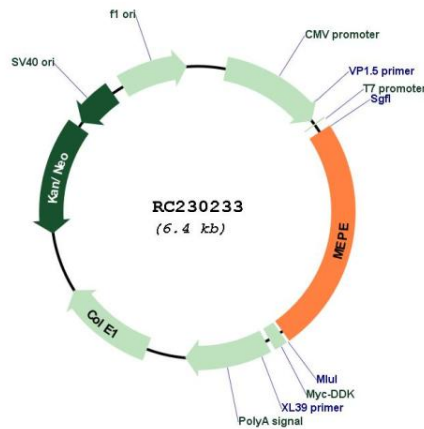
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001184694.2](#)
RefSeq ORF: 1578 bp
Locus ID: 56955
UniProt ID: [Q9NQ76](#)
Cytogenetics: 4q22.1
Protein Families: Secreted Protein
MW: 58.9 kDa

Gene Summary: This gene encodes a secreted calcium-binding phosphoprotein that belongs to the small integrin-binding ligand, N-linked glycoprotein (SIBLING) family of proteins. Members of this family are components of the extracellular matrix of bone and dentin and regulate bone mineralization. Deficiency of a similar protein in mouse results in increased bone mass. Mice lacking this gene are resistant to aging-related trabecular bone loss. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RC230233