

Product datasheet for **RC230031**

MEPE (NM_001184695) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | MEPE (NM_001184695) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | MEPE |
| Synonyms: | OF45 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RC230031 representing NM_001184695 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCAATTTATCCTAAGTCAACTGGGAATAAAGGTTTGAGGATGGAGATGATGCTATCAGCAAACACTAC
ATGACCAAGAAGAATATGGCGCAGCTCTCATCAGAAATAACATGCAACATATAATGGGGCCAGTGACTGC
GATTAACCTCTGGGGGAAGAAAACAAAGAGAACACACCTAGGAATGTTCTAAACATAATCCAGCAAGT
ATGAATTATGCTAAAGCACACTCGAAGGATAAAAAGAAGCCTCAAAGAGATTCCTCAAGCCAGAAAAGTC
CAGTAAAAAGCAAAGCACCCATCGTATTCAACACAACATTGACTACCTAAAACATCTCTCAAAAGTCAA
AAAAATCCCCAGTGATTTTGAAGGCAGCGTTATACAGATCTTCAAGAGAGAGGGGACAATGATATATCT
CCTTTCAGTGGGGACGGCCAACCTTTTAAGGACATTCTGGTAAAGGAGAAGCTACTGGTCTGACCTAG
AAGGCAAAGATATTCAACAGGGTTTGCAGGCCAAGTGAAGCTGAGAGTACTCATCTTGACACAAAAA
GCCAGGTATAATGAGATCCCAGAGAGAGAAGAAAATGGTGGAAATACCATTGGAAGTGGGATGAACT
GCGAAAGAGGCAGATGCTGTTGATGTCAGCCTGTAGAGGGCAGCAACGATATCATGGGTAGTACCAATT
TTAAGGAGCTCCCTGGAAGAGAAGGAAACAGAGTGGATGCTGGCAGCCAAAATGCTCACCAAGGGAAGGT
TGAGTTTCATTACCCTCCTGCACCCTCAAAGAGAAAAGAAAAGGAGGAGTGTGATGTCAGCTGAAAGT
ACCAACTATAATGAAATTCCTAAAAATGGCAAAGGCAGTACCAGAAAGGGTGTAGATCATTCTAATAGGA
ACCAAGCAACCTTAAATGAAAAACAAAGGTTTCTAGTAAAGGCAAAAGTCAAGGCGCTGCCATTCTTC
TCGTGGTCTTGATAATGAAATCAAAAACGAAATGGATTCTTTAATGGCCCCAGTCATGAGAATATAATA
ACACATGGCAGAAAATATCATTATGTACCCACAGACAAAATAATTCTACACGGAATAAGGGTATGCCAC
AAGGGAAGGCTCCTGGGTAGACAACCCATTCCAACAGGAGGTTTGTCCCGTAGAAGGGATGACAG
TAGTGAGTCATCTGACAGTGGCAGTTCAGTGAGAGCGATGGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC230031 representing NM_001184695
 Red=Cloning site Green=Tags(s)

MSIYPKSTGNKGFEDGDDAISKLDHQEEYGAALIRNNMQHIMGPVTAIKLLGEENKENTPRNVLNIIPAS
 MNYAKAHSKDKKKPQRDSQAQKSPVKSKSTHRIQHNIDYKHLKLVKIPSDFEKGYDLQERGDNDIS
 PFSGDGQPFKDIIPGKGEATGPDLEKDIQTGFAGPSEAESTHLDTKKPGYNEIPEREENGNTIGTRDET
 AKEADAVDVSLVEGSNDIMGSTNFKELPGREGNRVDAGSQNAHQKVEFHYPAPSKKRKEGSSDAAES
 TNYNEIPKNGKGSYTRKGVDSNRNQATLNEKQRFPSKGSQGLPIPSRGLDNEIKNEMDSFNPSHENII
 THGRKYHYVPHRQNNSTRNKGMPQKGSWGRQPHSNRRFSSRRRDDSSSSDGSSESSESDGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

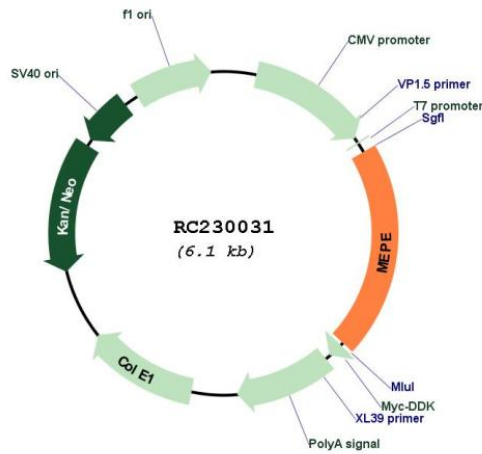
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001184695

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| ORF Size: | 1236 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: | <ol style="list-style-type: none">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_001184695.2 |
| RefSeq Size: | 2113 bp |
| RefSeq ORF: | 1239 bp |
| Locus ID: | 56955 |
| UniProt ID: | Q9NQ76 |
| Cytogenetics: | 4q22.1 |
| Protein Families: | Secreted Protein |
| MW: | 45.3 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] |