

## Product datasheet for **RC238885**

### MEPE (NM\_001291183) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEPE (NM_001291183) 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



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**ORF Nucleotide Sequence:**

>RC238885 representing NM\_001291183  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGAGTTTTCTGTGTGGGACTACTCCTTTTCAGTGTGACCTGGGCAGCACCAACATTTCAACCACAGA  
 CTGAGAAAATAAGCAAAGCTGTGTGGAAGAGCAGAGGATAACATACAAGGGTCACTATGAGAAACATGG  
 GCATTATGTTTTAAGTGTGTTTACATGTCACCTGAGAAGAAAAATCAAAGTATGTAAGCAGGAAGAA  
 AAAAACAAAGACAATATTGGTTTTACCATTTGGGCAAGAGAATAAATCAAGAGCTATCATCTAAAGAAA  
 ATATTGTCAGGAAAGAAAGAAAGATTTGTCCCTTTCTGAAGCCAGTGAAGTAAGGGAAGTAGTAAATC  
 TCAAAATATTTCAAAATAGACAGAGACTGAATAAAGAATATAGTATCAGTAACAAAGAGAATACTCAC  
 AATGGCCTGAGGATGTCAATTTATCCTAAGTCACTGGGAATAAAGGTTTGGAGGATGGAGATGATGCTA  
 TCAGCAAATACATGACCAAGAAGAATATGGCGCAGCTCTCATCAGAAATAACATGCAACATATAATGGG  
 GCCAGTACTGCGATTAAGTCTGGGGGAAGAAAACAAAGAGAACACACCTAGGAATGTTCTAAACATA  
 ATCCCAGCAAGTATGAATTATGCTAAAGCACACTCGAAGGATAAAAAAGAGCCTCAAAGAGATCCCAAG  
 CCCAGAAAAGTCCAGTAAAAAGCAAAGCACCCATCGTATTCAACACAACATTGACTACCTAAAAACATCT  
 CTCAAAAGTCAAAAAATCCCCAGTGATTTTGAAGGCAGCGGTTATACAGATCTTCAAGAGAGAGGGGAC  
 AATGATATATCTCTTTTCAAGTGGGACGGCAACCTTTTAAAGGACATTCCTGGTAAAGGAGAAGCTACTG  
 GTCCTGACCTAGAAGGCAAAGATATTCAAACAGGGTTTGCAGGCCAAGTGAAGCTGAGAGTACTCATCT  
 TGACACAAAAAGCCAGGTTATAATGAGATCCCAGAGAGAGAAGAAAATGGTGGAAATACCATTGGAAT  
 AGGGATGAAACTGCGAAAGAGGCAGATGCTGTTGATGTCAGCCTGTAGAGGGCAGCAACGATATCATGG  
 GTAGTACCAATTTAAGGAGCTCCCTGGAAGAGAAGGAAACAGAGTGGATGCTGGCAGCCAAAATGCTCA  
 CCAAGGGAAGTTGAGTTTCATTACCTCCTGCACCTCAAAGAGAAAAGAAAAGGAGGAGTGTGAT  
 GCAGCTGAAAGTACCAACTATAATGAAATTCCTAAAAATGGCAAAGGCAGTACCAGAAAAGGTTGATGATC  
 ATTCTAATAGGAACCAAGCAACCTTAAATGAAAAACAAAGGTTTCTAGTAAGGGCAAAGTCAAGGGCCT  
 GCCATTCTCTCGTGGTCTTGATAATGAAATCAAAAACGAAATGGATTCTTTAATGGCCCCAGTCAT  
 GAGAATAATAACACATGGCAGAAAATATCATTATGTACCCACAGACAAAATAATTCTACACGGAAATA  
 AGGGTATGCCACAAGGAAAGGCTCCTGGGGTAGACAACCCCATCCAACAGGAGTTTAGTTCCCGTAG  
 AAGGGATGACAGTAGTGAGTCATCTGACAGTGGCAGTTCAAGTGAGAGCGATGGTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238885 representing NM\_001291183  
 Red=Cloning site Green=Tags(s)

MRVFCVGLLLFSVTWAAPTFQPQTEKTKQSCVVEQRITYKGHYEKHGHYVFKCVYMSPEKKNQTDVKQEE  
 KNKDNIGFHHLGKRINQELSSKENIVQERKKDLSEASENKGSSKSONYFTNRQRLNKEYSISNKENTH  
 NGLRMSIYPKSTGNKGFEDGDDAISKLHDQEEYGAALIRNNMQHIMGPVTAIKLLGEENKENTPRNLNI  
 IPASMNYAKAHSKDKKPKQDSQAQKSPVSKSTHRIQHNIIDYKHLKLVKIPSDFEFGYTDLQERGD  
 NDISPFSGDGQPFKDIIPKGEATGPDLEKDIQTGFAGPSEAESTHLDTKKPGYNEIPEREENGNTIGT  
 RDETAKEADAVDVSLEGSNDIMGSTNFKELPREGNRVDAGSQNAHQGKVEFHYPAPPSKEKRKEGSSD  
 AAESTNYNEIPKNGKSTRKGVDSNRNQATLNEKQRFPSKGSQGLPIPSRGLDNEIKNEMDSFNGPSH  
 ENIITHGRKYHYVPHRQNNSTRNKGMPQKGSWGRQPHSNRRFSSRRRDDSSSSDSSGSSSESDGD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001291183
<b>ORF Size:</b>	1668 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291183.1</a> , <a href="#">NP_001278112.1</a>
<b>RefSeq Size:</b>	2054 bp
<b>RefSeq ORF:</b>	1671 bp
<b>Locus ID:</b>	56955
<b>UniProt ID:</b>	<a href="#">Q9NQ76</a>
<b>Cytogenetics:</b>	4q22.1
<b>Protein Families:</b>	Secreted Protein
<b>MW:</b>	62.6 kDa
<b>Gene Summary:</b>	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]