

## Product datasheet for **RC230032**

### MEPE (NM\_001184696) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEPE (NM_001184696) 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:	>RC230032 representing NM_001184696 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCAATTTATCCTAAGTCAACTGGGAATAAAGGTTTGAGGATGGAGATGATGCTATCAGCAAACACTAC  
ATGACCAAGAAGAATATGGCGCAGCTCTCATCAGAAATAACATGCAACATATAATGGGGCCAGTGACTGC  
GATTAACCTCTGGGGGAAGAAAACAAAGAGAACACACCTAGGAATGTTCTAAACATAATCCCAGCAAGT  
ATGAATTATGCTAAAGCACACTCGAAGGATAAAAAGAAGCCTCAAAGAGATTCCTCAAGCCAGAAAAGTC  
CAGTAAAAGCAAAGCACCCATCGTATTCAACACAACATTGACTACCTAAAACATCTCTCAAAAGTCAA  
AAAAATCCCAGTGATTTTGAAGGCAGCGGTTATACAGATCTTCAAGAGAGAGGGGACAATGATATATCT  
CCTTTCAGTGGGGACGGCCAACCTTTTAAGGACATTCTGGTAAAGGAGAAGCTACTGGTCTGACCTAG  
AAGGCAAAGATATTCAACAGGGTTTGCAGGCCAAGTGAAGCTGAGAGTACTCATCTTGACACAAAAA  
GCCAGGTATAATGAGATCCCAGAGAGAGAAGAAAATGGTGGAAATACCATTGGAAGTGGGATGAACT  
GCGAAAGAGGCAGATGCTGTTGATGTCAGCCTTGTAGAGGCAGCAACGATATCATGGGTAGTACCAATT  
TTAAGGAGCTCCCTGGAAGAGAAGGAAACAGAGTGGATGCTGGCAGCCAAAATGCTCACCAGGGAAGGT  
TGAGTTTCATTACCCTCCTGCACCCTCAAAGAGAAAAGAAAAGGAGGAGTGTGATGTCAGCTGAAAGT  
ACCAACTATAATGAAATTCCTAAAATGGCAAAGGCAGTACCAGAAAGGTTGTAGATCATTCTAATAGGA  
ACCAAGCAACCTTAAATGAAAAACAAAGTTTCTAGTAAAGGCAAAAAGTCAAGGCTGCCATTCTTTC  
TCGTGGTCTTGATAATGAAATCAAAAACGAAATGGATTCTTTAATGGCCCCAGTCATGAGAATATAATA  
ACACATGGCAGAAAATATCATTATGTACCCACAGACAAAATAATTCTACACGGAATAAGGGTATGCCAC  
AAGGGAAGGCTCCTGGGTAGACAACCCATTCCAACAGGAGGTTTGTCCCGTAGAAGGGATGACAG  
TAGTGAGTCATCTGACAGTGGCAGTTCAGTGAGAGCGATGGTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC230032 representing NM\_001184696  
Red=Cloning site Green=Tags(s)

MSIYPKSTGNKGFEDGDDAISKLDHQEEYGAALIRNNMQHIMGPVTAIKLLGEENKENTPRNVLNIIPAS  
 MNYAKAHSKDKKKPQRDSQAQKSPVKSKSTHRIQHNIDYLKHLKVKKIPSDFEKGYDLQERGDNDIS  
 PFSGDGQPFKDIPIGKGEATGPDLEKDIQTGFAGPSEAESTHLDTKKPGYNEIPEREENGNTIGTRDET  
 AKEADAVDVSLVEGSNDIMGSTNFKELPGREGNRVDAGSQNAHQKVEFHYPAPSKKREKSGSSDAAES  
 TNYNEIPKNGKGSYTRKGVDSNRNQATLNEKQRFPSKGSQGLPIPSRGLDNEIKNEMDSFNPSHENII  
 THGRKYHYVPHRQNNSTRNKGMPQKGSWGRQPHSNRRFSSRRRDDSSSSDGSSESSEDGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

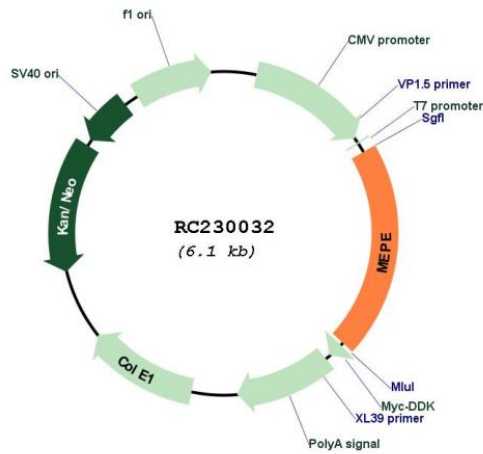
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001184696

<b>ORF Size:</b>	1236 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_001184696.1</a> , <a href="#">NP_001171625.1</a>
<b>RefSeq Size:</b>	2135 bp
<b>RefSeq ORF:</b>	1239 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>	45.3 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]