

## Product datasheet for **SC304720**

### MEPE (NM\_020203) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEPE (NM_020203) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEPE
Synonyms:	OF45
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_020203 edited  
 CAATGTTATGCGAGTTTTCTGTGTGGGACTACTCTTTTCAGTGTGACCTGGGCAGCACC  
 AACATTTCAACCACAGACTGAGAAAAGCTAAGCAAAGCTGTGTGGAAGAGCAGAGGCAGGA  
 AGAAAAAACAAGACAATATTGGTTTTACCATTGGGCAAGAGAATAAATCAAGAGCT  
 ATCATCTAAAGAAAATATTGTCCAGGAAAGAAAGAAAGATTTGTCCTTTCTGAAGCCAG  
 TGAGAATAAGGGAAGTAGTAAATCTCAAATTTTCCAAAATAGACAGAGACTGAATAA  
 AGAATATAGTATCAGTAACAAAGAGAATACTCACAATGGCCTGAGGATGTCAATTTATCC  
 TAAGTCAACTGGGAATAAAGGGTTTGAGGATGGAGATGATGCTATCAGCAAACATACATGA  
 CCAAGAAGAATATGGCGCAGCTCTCATCAGAAATAACATGCAACATATAATGGGGCCAGT  
 GACTGCGATTAAACTCCTGGGGGAGAAAACAAAGAGAACACACCTAGGAATGTTCTAAA  
 CATAATCCAGCAAGTATGAATTATGCTAAAGCACACTCGAAGGATAAAAAAGAGCCTCA  
 AAGAGATCCCAAGCCAGAAAAGTCCAGTAAAAAGCAAAGCACCCATCGTATTCAACA  
 CAACATTGACTACCTAAAACATCTCTCAAAGTCAAAAAATCCCCAGTGATTTTGAAGG  
 CAGCGGTATACAGATCTTCAAGAGAGAGGGGACAATGATATATCTCTTTCAGTGGGGA  
 CGGCCAACCTTTAAGGACATTCCTGGTAAAGGAGAAGCTACTGGTCTGACCTAGAAGG  
 CAAAGATATCAACAGGGTTTGACAGGCCAAGTGAAGCTGAGAGTACTCATCTTGACAC  
 AAAAAAGCCAGGTTATAATGAGATCCCAGAGAGAGAAGAAAATGGTGAAATACCATTGG  
 AACTAGGGATGAACTGCGAAAGAGGCAGATGCTGTTGATGTCAGCCTGTAGAGGGCAG  
 CAACGATATCATGGGTAGTACCAATTTTAAAGGAGCTCCCTGGAAGAGAAGGAAACAGAGT  
 GGATGCTGGCAGCCAAAATGCTCACAAGGGAAGGTTGAGTTTCATTACCTCCTGCACC  
 CTCAAAGAGAAAAGAAAAGGCAAGTGTGATGCAGCTGAAAGTACCAACTATAATGA  
 AATTCCTAAAAATGGCAAAGGCAGTACCAGAAAGGGTGTAGATCATTCTAATAGGAACCA  
 AGCAACCTTAAATGAAAAACAAGGTTTCTAGTAAAGGCAAAAGTCAGGCGCTGCCCAT  
 TCCTTCTCGTGGTCTTGATAATGAAATCAAAAACGAAATGGATTCTTTTAAATGGCCCCAG  
 TCATGAGAATATAATAACACATGGCAGAAAATATCATTATGTACCCACAGACAAAATAA  
 TTCTACACGGAATAAGGGTATGCCACAAGGAAAGGCTCCTGGGGTAGACAACCCCATTC  
 CAACAGGAGGTTTAGTTCCTGTAAGGGATGACAGTAGTGAATCATCTGACAGTGGCAG  
 TTCAAGTGAAGCGATGGTACTAGTCCACCAGGAGTCCAGCGGGGTGACAGTCTGAA  
 GACCTCGTACCTGTGAGTTGATGTAGAGGAGAGCCACCTGACAGCTGACCAGGTGAAGA  
 GAGGATAGAGTGAAGAACTGAGTGAAGCAAGAATCCTGGTCTCCTTGGGGGAATTTTGC  
 TATCTTAATAGTACAGTATAAAATTCTATTAAGGCTATAATGTTTTTAAAGCAAAAAA  
 AATCATTACAGATCTATGAAATAGGTAACATTTGAGTAGGTGTCATTTAAAAATAGTTGG  
 TGAATGTCACAAATGCCTTCTATGTTGTTGCTCTGTAGACATGAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_020203 unedited  
 GTTGCCATTTNGTATACCACTTACTATAGGCGGCCGCGCATTGCGCCTTCATGTTATGCG  
 AGTTTTCTGTGTGGGACTACTCCTTTTTCAGTGTGACCTGGGCAGCACCAACATTTCAACC  
 ACAGACTGAGAAAAGCTAAGCAAAGCTGTGTGGAAGAGCAGAGGCAGGAAGAAAAAACA  
 AGACAATATTGGTTTTACCATTGGGCAAGAGAATAAATCAAGAGCTATCATCTAAAGA  
 AAATATTGTCCAGGAAAGAAAGAAAGATTTGTCCTTTCTGAAGCCAGTGAATAAGGG  
 AAGTAGTAAATCTCAAATTTATTTCAAAAATAGACAGAGACTGAATAAAGAAATAGTAT  
 CAGTAACAAAGAGAATACTCACAATGGCCTGAGGATGTCAATTTATCCTAAGTCAACTGG  
 GAATAAAGGGTTTGAAGATGGAGATGATGCTATCAGCAAACATACATGACCAAGAAGAATA  
 TGGCGCAGCTCTCATCAGAAATAACATGCAACATATAATGGGGCCAGTACTGCGATTAA  
 ACTCCTGGGGGAGAAAACAAGAGAACACACCTAGGAATGTTCTAAACATAATCCCAG  
 CAAGTATGAATTATGCTAAAGCACACTCGAAGGATAAAAAAGAGCCTCAAGAGATTCCC  
 AAGCCCCAGAAAAGTCAAGTAAAAAGCAAAGCACCCCATCGTATTCAACACAACATTGA  
 CTACCTAAAAATTTCTCTCAAAGTCAAAAAGATTCCCAGGTGATTTGGAAGGCAGCGGG  
 TTATACCAGATCTTCAAGAGAGAGGGGACAATGATTTTATCTC

**Restriction Sites:** Please inquire  
**ACCN:** NM\_020203

<b>Insert Size:</b>	1900 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>	<u><a href="#">NM_020203.2</a></u> , <u><a href="#">NP_064588.1</a></u>
<b>RefSeq Size:</b>	1979 bp
<b>RefSeq ORF:</b>	1578 bp
<b>Locus ID:</b>	56955
<b>UniProt ID:</b>	<u><a href="#">Q9NQ76</a></u>
<b>Cytogenetics:</b>	4q22.1
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region compared to variant 6. The encoded isoform (a) is shorter than isoform c. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>