

## Product datasheet for **MC215851**

### Mepe (NM\_053172) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mepe (NM_053172) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mepe
Synonyms:	Of45
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC215851 representing NM_053172 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACGCCAGAGGGCCTCATGAAGATGCAGGCTGTGTCTGTTGGACTGCTCCTTTCAGTATGACCTGGG  
CGGCACCAATGCCGAATGAAGACAGGAGCAGCTGCGGCAATCAAGACAGCATTACAAGGACTTGGCAGC  
ATCTGTGTATCCTGATCCACGGTGGATGAAGGCACAGAGGATGGGCAAGGTGCTCCTTACCCGCCCT  
GGCCAGGACAGGTATGGTGTGCCCTCCTCAGAAATATCACGCAGCCTGTAAGAGTCTAGTGACTGGGG  
CCGAACTACGGAGGGAAGGAAACCAGGAGAAGAGACCTCAGAGTGTCTAAGCGTAATCCAGCAGATGT  
CAATGATGCTAAAGTCTCCTTAAAGACATAAAGAATCAAGAGAGTTATCTGCTAACCCAGAGCAGCCCG  
GTCAAAAGCAAACACACCAAAACACCCCGCCAGACCCGACGGAGCACTACTACCTGACACATCTCCAC  
AGATCAAGAAGACTCCCAGTGACCTTGAAGGCAGTGGCTCCCCAGATCTTCTAGTGAGGGGAGATAATGA  
TGTCCCCCTTTCAGTGGAGATGGGCAACATTTTATGCACATTCCTGGCAAAGGAGGTGCTGGGTCTGGT  
CCTGAAAGCTCACTAGTCGCCCCCTCTCAGGCTCCAGCAAAGCTGAAGTTATTGACCCACATATGATG  
GACTAGGCTCTAATGAGATCCCGGGGAGAGAAGGACATGGTGGCAGTGCCTATGCAACCAGAGACAAGC  
TGCACAGGGGGCAGGCTCTCAGGTGGGAGCCTTGTGGGGGCAGCAATGAAATCACAGGCAGCAACAT  
TTCAGGGAACCTCCCGGAAAAGAAGGAAACAGAATTAATGCCGGCAGCCAAAATGCTCATCAAGGAAAAG  
TAGAATTTCACTATCCACAAGTGGCCTCGAGAGAAAAGTAAAGGGGGCGTGGAGCATGCAGGGAGAGC  
TGGTTACAACGAAATCCCAAGAGCAGCAAAGGTAGCTCTAGCAAAGATGCAGAAGAGTCCAAAGGGAAC  
CAATTAACCTTGACTGCAAGCCAAAGATTTCCAGGTAAGGCAAAGCCAGGGCCCTGCTCTGCCCTCTC  
ACAGTCTTAGTAATGAGGTTAAAAGTGAAGAAAACCATATGTGTTCCATGGACAAAATAATCTTACACC  
GAATAAAGGGATGTCACAGCGGAGAGGCTCCTGGCCTTCGAGAAGACCAATTCCACAGGCGCGTAGC  
ACCCGCCAAAGAGACAGCAGCGAGTCGTCATCCAGTGGGAGTTCTAGTGAGAGTCATGGTACTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_053172
<b>Insert Size:</b>	1326 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>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_053172.2</a> , <a href="#">NP_444402.2</a>
<b>RefSeq Size:</b>	1682 bp
<b>RefSeq ORF:</b>	1326 bp
<b>Locus ID:</b>	94111
<b>UniProt ID:</b>	<a href="#">Q8K4L6</a>
<b>Cytogenetics:</b>	5 E5
<b>Gene Summary:</b>	Regulates renal phosphate and uric acid excretion (PubMed:26051469). Regulates bone mineralization by osteoblasts and cartilage mineralization by chondrocytes (PubMed:11414762, PubMed:12421822, PubMed:15843468, PubMed:22766095). Regulates the mineralization of the extracellular matrix of the craniofacial complex, such as teeth, bone and cartilage (PubMed:26927967). Increases dental pulp stem cell proliferation (By similarity). [UniProtKB/Swiss-Prot Function]