

## Product datasheet for **MR226882**

### Mepe (NM\_053172) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Mepe (NM_053172) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                 |
| Symbol:                   | Mepe                                    |
| Synonyms:                 | Of45                                    |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**ORF Nucleotide Sequence:**

>MR226882 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAGGCTGTGTCTGTTGGACTGCTCCTCTTCAGTATGACCTGGGCGGCACCAATGCCGAATGAAGACA  
 GGAGCAGCTGCGCAATCAAGACAGCATTACAAAGGACTTGGCAGCATCTGTGTATCCTGATCCACGGT  
 GGATGAAGGCACAGAGGATGGGCAAGGTCTCTCTTACCCCGCTGGCCAGGACAGGTATGGTGTCTGCC  
 CTCCTCAGAAATATCACGCAGCCTGTAAGAGTCTAGTACTGGGCGGAACTACGGAGGGAAGGAAACC  
 AGGAGAAGAGACCTCAGAGTGTCTAAGCGTAATTCCAGCAGATGTCAATGATGCTAAAGTCTCCTTAA  
 AGACATAAAGAATCAAGAGAGTTATCTGCTAACCCAGAGCAGCCCGTCAAAGCAAACACACCAAAACAC  
 ACCCGCCAGACCCGACGGAGCACTACTACCTGACACATCTCCACAGATCAAGAAGACTCCAGTGACC  
 TTGAAGGCAGTGGCTCCCAGATCTTCTAGTGAGGGGAGATAATGATGTCCCCCTTTCAGTGGAGATGG  
 GCAACATTTTATGCACATTCCTGGCAAAGGAGGTCTGGGTCTGGTCTGAAAGCTCAACTAGTCGCCCC  
 CTCTCAGGCTCCAGCAAAGCTGAAGTTATTGACCCACATATGAGTGGACTAGGCTCTAATGAGATCCCGG  
 GGAGAGAAGGACATGGTGGCAGTGCCTATGCAACCAGAGACAAAGCTGCACAGGGGGCAGGCTCTGCAGG  
 TGGGAGCCTTGTGGGGGGCAGCAATGAAATCACAGGCAGCACCAATTTACGGGAATCCCCGGAAAAGAA  
 GGAAACAGAATTAATGCCGGCAGCCAAAATGCTCATCAAGGGAAAGTAGAATTTCACTATCCACAAGTGG  
 CCTCGAGAGAAAAGGTAAGGGGGGGCTGGAGCATGCAGGGAGAGCTGGTTACAACGAAATCCCAAGAG  
 CAGCAAAGGTAGCTCTAGCAAAGATGCAGAAGAGTCCAAGGGAAACCAATTAACCTTGACTGCAAGCCAA  
 AGATTTCCAGGTAAGGCAAAAGCCAGGGCCCTGCTCTGCCCTCTCACAGTCTTAGTAATGAGGTTAAAA  
 GTGAAGAAAACCATTAATGTGTTCCATGGACAAAATAATCTTACACCGAATAAAGGGATGTCACAGCGGAG  
 AGGCTCCTGGCCTTCGAGAAGACCAATTCACACAGGCGCTAGCACCCGCCAAAGAGACAGCAGCGAG  
 TCGTCATCCAGTGGGAGTCTAGTGAGAGTCATGGTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226882 protein sequence  
 Red=Cloning site Green=Tags(s)

MQAVSVGLLLFSMTWAAMPNEDRSSCGNQDSIHKDLAASVYDPDPTVDEGTEDGQGALLHPPGQDRYGAA  
 LLRNITQPVKSLVTGAELRREGNQEKRPQSVLSVIPADVNDKAVSLKDIKNQESYLLTQSSPVKSKHTKH  
 TRQTRRSTHYLTHLPQIKKTPSDLESGSPDLLVRGDNDVPPFSGDGQHFMHIPGKGGAGSGPESSTSRP  
 LSGSSKAEVIDPHMSGLGSNEIPGREGHGGSAYATRDKAAQAGSAGGSLVGSNEITGSTNFRPLPGKE  
 GNRINAGSQNAHQKVEFHYPQVASREKVKGGVEHAGRAGYNEIPKSSKGSSSKDAEESKGNQLTLTASQ  
 RFPKGKGSQGPALPSSHLSNEVKSEENHYVFHGQNNLTPNKGMSQRRGSWPSRRPNSHRRASTRQRDSSE  
 SSSSGSSSESHGD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_053172

**ORF Size:** 1302 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:**
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\\_053172.2](#), [NP\\_444402.2](#)

**RefSeq Size:** 1682 bp

**RefSeq ORF:** 1326 bp

**Locus ID:** 94111

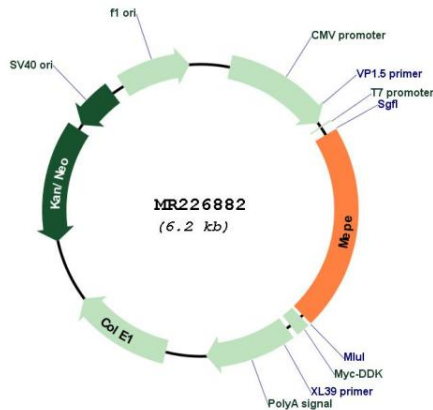
**UniProt ID:** [Q8K4L6](#)

**Cytogenetics:** 5 E5

MW: 46 kDa

Gene Summary: 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]

### Product images:



Circular map for MR226882