

Product datasheet for **MG226882**

Mepe (NM_053172) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mepe (NM_053172) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mepe
Synonyms:	Of45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226882 representing NM_053172 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAGGCTGTGTCTGTTGGACTGCTCCTCTTCAGTATGACCTGGGCGGCACCAATGCCGAATGAAGACA
GGAGCAGCTGCGGCAATCAAGACAGCATTACAAGGACTTGGCAGCATCTGTGTATCCTGATCCCACGGT
GGATGAAGGCACAGAGGATGGGCAAGGTGCTCTCCTTACCCGCTGGCCAGGACAGGTATGGTGTGCC
CTCCTCAGAAATACACGCAGCCTGTAAGAGTCTAGTACTGGGCGGAACTACGGAGGGAAGGAAACC
AGGAGAAGAGACCTCAGAGTGTCTAAGCGTAATTCAGCAGATGTCAATGATGCTAAAGTCTCCTTAAA
AGACATAAAGAATCAAGAGAGTTATCTGCTAACCCAGAGCAGCCCGGTCAAAGCAAACACACCAAAACAC
ACCCGCCAGACCCGACGGAGCACTCACTACCTGACACATCTCCCACAGATCAAGAAGACTCCAGTGACC
TTGAAGGCAGTGGCTCCCGAGTCTTCTAGTGAGGGGAGATAATGATGTCCCCCTTTTCAGTGGAGATGG
GCAACATTTTATGCACATTCCTGGCAAAGGAGGTGCTGGGTCTGGTCTGAAAGCTCAACTAGTCGCCCC
CTCTCAGGCTCCAGCAAAGCTGAAGTTATTGACCCACATATGAGTGGACTAGGCTCTAATGAGATCCCGG
GGAGAGAAGGACATGGTGGCAGTGCCTATGCAACCAGAGACAAAGCTGCACAGGGGGCAGGCTCTGCAGG
TGGGAGCCTTGTGGGGGCAGCAATGAAATCACAGGCAGCACCAATTTTCAGGGAATCCCGGAAAAGAA
GGAACAGAAATTAATGCCGCGAGCCAAAATGCTCATCAAGGAAAGTAGAATTTCACTATCCACAAGTGG
CCTCGAGAGAAAAGGTAAGGGGGCGTGGAGCATGCAGGGAGAGCTGGTTACAACGAAAATCCCAAGAG
CAGCAAAGGTAGCTCTAGCAAAGATGCAGAAGAGTCCAAAGGAAACCAATTAACCTTGACTGCAAGCCAA
AGATTTCCAGGTAAGGCAAAGCCAGGGCCCTGCTCTGCCCTCTCACAGTCTTAGTAAATGAGGTTAAAA
GTGAAGAAAACCATATGTGTTCCATGGACAAAATAATCTTACACCGAATAAAGGGATGTCACAGCGGAG
AGGCTCTGGCCTTCGAGAAGACCCAATCCCACAGGCGCGCTAGCACCCGCCAAAGAGACAGCAGCGAG
TCGTCATCCAGTGGGAGTTCTAGTGAGAGTCATGGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226882 representing NM_053172
 Red=Cloning site Green=Tags(s)

MQAVSVGLLLFSMTWAAMPNEDRSSCGNQDSIHKDLAASVYPDPTVDEGTEDGQGALLHPPGQDRYGAA
 LLRNITQPVKSLVTGAELRREGNQEKRPQSVLSVIPADVNDKAVSLKDIKNQESYLLTQSSPVKSKHTKH
 TRQTRRSTHYLTHLPQIKKTPSDLEGGSPDLLVRGDNVPPFSGDGQHFHMHIPGKGGAGSGPESSTSRP
 LSGSSKAEVIDPHMSGLGSNEIPGREGHGGSAYATRDKAAQAGSAGGSLVGGSSNEITGSTNFRELPGKE
 GNRINAGSQNAHQKVEFHYPQVASREKVKGGVEHAGRAGYNEIPKSSKGSSSKDAEESKGNQLTLTASQ
 RFPKGKKSQGPALP SHLSNEVKSEENHYVFHGQNNLTPNKGMSQRRGSWPSRRPNSHRRASTRQRDSS
 SSSSGSSSESHGD

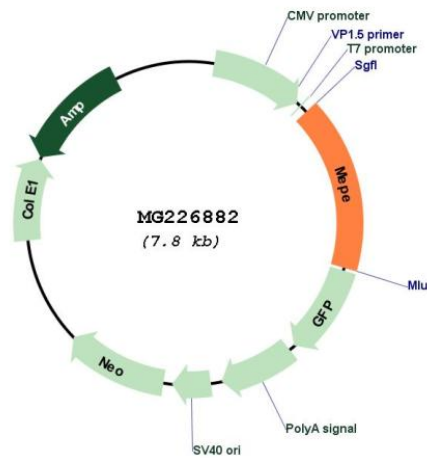
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053172

ORF Size:	1323 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:	<ol style="list-style-type: none"> 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_053172.1
RefSeq Size:	1682 bp
RefSeq ORF:	1326 bp
Locus ID:	94111
UniProt ID:	Q8K4L6
Cytogenetics:	5 E5
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]