

Product datasheet for **RG238885**

MEPE (NM_001291183) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEPE (NM_001291183) Human 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)



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ORF Nucleotide Sequence:

>RG238885 representing NM_001291183.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCGAGTTTTCTGTGTGGGACTACTCCTTTTCAGTGTGACCTGGGCAGCACCAACATTTCAACCACAG
ACTGAGAAAACTAAGCAAAGCTGTGTGGAAGAGCAGAGGATAACATACAAGGGTCACTATGAGAAACAT
GGGCATTATGTTTTAAGTGTGTTTACATGTCACTGAGAAGAAAAATCAAAGTATGTAAGCAGGAA
GAAAAAACAAGACAATATTGTTTTCCACTTTGGGCAAGAGAATAAATCAAGAGCTATCATCTAAA
GAAATATTGTCCAGGAAAGAAAGAAAGATTTGCCCTTCTGAAGCCAGTGAGAATAAGGGAAAGTAGT
AAATCTCAAAATTATTTCAAAATAGACAGAGACTGAATAAAGAATATAGTATCAGTAACAAAGAGAAT
ACTCACAATGGCCTGAGGATGTCAATTTATCCTAAGTCAACTGGGAATAAAGGGTTTGAGGATGGAGAT
GATGCTATCAGCAAACTACATGACCAAGAAGAATATGGCGCAGCTCTCATCAGAAATAACATGCAACAT
ATAATGGGGCCAGTGACTGCGATTAACCTCTGGGGGAAGAAAACAAGAGAACACACCTAGGAATGTT
CTAAACATAATCCAGCAAGTATGAATTATGCTAAAGCACACTCGAAGGATAAAAAGAAGCCTCAAAGA
GATTTCCCAAGCCAGAAAAGTCCAGTAAAAGCAAAAGCACCCATCGTATTCAACACAACATTGACTAC
CTAAAACATCTCTCAAAAGTCAAAAAATCCCCAGTGATTTTGAAGGCAGCGGTTATACAGATCTCAA
GAGAGAGGGGACAATGATATATCTCTTTCAGTGGGGACGGCCAACCTTTTAAGGACATTCTGGTAAA
GGAGAAGCTACTGGTCTGACCTAGAAGGCAAAGATATTCAAACAGGGTTTGCAGGCCAAAGTGAAGCT
GAGAGTACTCATCTTGACACAAAAAGCCAGGTTATAATGAGATCCCAGAGAGAGAAGAAAATGGTGGA
AATACCATTGGAAGTGGATGAACTGCGAAAGAGGCAGATGCTGTTGATGTCAGCCTGTAGAGGGC
AGCAACGATATCATGGGTAGTACCAATTTAAGGAGCTCCCTGGAAGAGAAGGAAACAGAGTGGATGCT
GGCAGCCAAAATGCTCACCAAGGGAAGTTGAGTTTCATTACCCTCCTGCACCCTCAAAGAGAAAAGA
AAAGAAGGCAGTAGTGATGCAGCTGAAAGTACCAACTATAATGAAATTCCTAAAAATGGCAAAGGCAGT
ACCAGAAAAGGTGTAGATCATTCTAATAGGAACCAAGCAACCTTAAATGAAAAACAAGGTTTCCTAGT
AAGGGCAAAGTCAAGGCCTGCCATTCTCTCGTGGTCTTGATAATGAAATCAAAAACGAAATGGAT
TCCTTTAATGGCCCCAGTCATGAGAATAATAACACATGGCAGAAAATATCATTATGTACCCACAGA
CAAAATAATTCTACCGGAATAAGGGTATGCCACAAGGGAAGGCTCCTGGGGTAGACAACCCATTCC
AACAGGAGGTTTAGTCCCGTAGAAGGGATGACAGTAGTGAGTCATCTGACAGTGGCAGTCAAGTGAG
AGCGATGGTGAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238885
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MRVFCVGLLLFSVTWAAPTFFQPQTEKTKQSCVEEQRITYKGHYEKHGHYVFKCVYMSPEKKNQTDVKQE
EKNKDNIGFHHLGKRINQELSSKENIVQERKDLSEASENKGSSKSNQYFTNRQRLNKEYSISNKEN
THNGLRMSIYPKSTGNKGFEDGDDAISKLHDQEEYGAALIRNNMQHIMGPVTAIKLLGEENKENTPRNV
LNIIPASMNYAKAHSKDKKPKQRDSQAQKSPVKSSTHRIQHNIDYKHLKSKVKKIPSDFEFGSYDLQ
ERGDNDISPFSGDGQPFKDIPGKGEATGPDLEGKDIQTGFAGPSEAEHLDTKKPGYNEIPEREENG
NTIGTRDETAKEADAVDVSLEGSNDIMGSTNFKELPGREGNRVDAGSQNAHQKVEFHYPAPSKEKR
KEGSSDAAESTNYNEIPKNGKSTRKGVDSNRNQATLNEKQRFPSKGSQGLPIPSRGLDNEIKNEMD
SFNGPSHENIITHGRKYHYVPHRQNNSTRNKGMPPQKGSWGRQPHSNRRFSSRRRDSSESDDSGSSSE
SDGD
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001291183

ORF Size: 1668 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).

RefSeq: [NM_001291183.1](#), [NP_001278112.1](#)

RefSeq Size: 2054 bp

RefSeq ORF: 1671 bp

Locus ID: 56955

UniProt ID: [Q9NQ76](#)

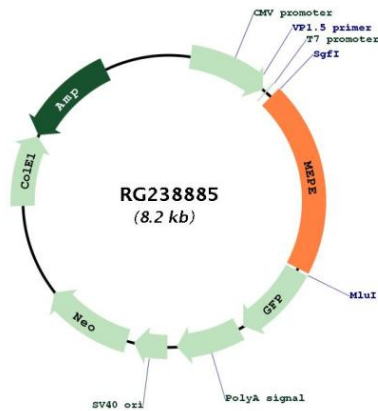
Cytogenetics: 4q22.1

Protein Families: Secreted Protein

MW: 62.6 kDa

Gene Summary:

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]

Product images:


Circular map for RG238885