

Product datasheet for **RG223827**

MEPE (NM_020203) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEPE (NM_020203) 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:

>RG223827 representing NM_020203
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGAGTTTTCTGTGTGGGACTACTCCTTTTCAGTGTGACCTGGGCAGCACCAACATTTCAACCACAGA
 CTGAGAAAATAAGCAAAGCTGTGTGGAAGAGCAGAGGCAGGAAGAAAAAACAAGACAATATTGGTTT
 TCACCATTGGGCAAGAGAATAAATCAAGAGCTATCATCTAAAGAAAATATTGTCCAGGAAAGAAAGAAA
 GATTTGTCCCTTTCTGAAGCCAGTGAAGAATAAGGGAAGTAGTAAATCTCAAAATTTTCACAAATAGAC
 AGAGACTGAATAAAGAATATAGTATCAGTAACAAAGAGAATACTCACAATGGCCTGAGGATGTCAATTTA
 TCCTAAGTCAACTGGGAATAAAGGGTTTGAGGATGGAGATGATGCTATCAGCAAACACATGACCAAGAA
 GAATATGGCGCAGCTCTCATCAGAAATAACATGCAACATATAATGGGGCCAGTACTGCGATTAACCTCC
 TGGGGGAAGAAAACAAGAGAACACACCTAGGAATGTTCTAAACATAATCCAGCAAGTATGAATATGTC
 TAAAGCACACTCGAAGGATAAAAAGAAGCCTCAAAGAGATTCCCAAGCCAGAAAAGTCCAGTAAAAAGC
 AAAAGCACCCATCGTATTCAACACAACATTGACTACCTAAAACATCTCTCAAAAGTCAAAAAAATCCCCA
 GTGATTTTGAAGGCAGCGGTTATACAGATCTTCAAGAGAGAGGGGACAATGATATATCTCCTTTTCAGTGG
 GGACGGCCAACCTTTTAAGGACATTCCTGGTAAAGGAGAAGCTACTGGTCTGACCTAGAAGGCAAAGAT
 ATTCAAACAGGGTTTGCAGGCCAAGTGAAGCTGAGAGTACTCATCTTGACACAAAAAGCCAGGTTATA
 ATGAGATCCCAGAGAGAGAAGAAAATGGTGAAAATACCATTGGAAGTACTGAGGATGAACTGCGAAAGAGGC
 AGATGCTGTTGATGTCAGCCTTGTAGAGGGCAGCAACGATATCATGGGTAGTACCAATTTTAAGGAGCTC
 CCTGGAAGAGAAGGAAACAGAGTGGATGCTGGCAGCCAAAATGCTCACCAAGGGAAGGTTGAGTTTCATT
 ACCCTCTGCACCCTCAAAGAGAAAAGAAAAGGAGGAGTGTGATGTCAGCTGAAAGTACCAACTATAA
 TGAATTCCTAAAAATGGCAAAGGCAGTACCAGAAAGGGGTGATAGATCATTCTAATAGGAACCAAGCAACC
 TTAATGAAAAACAAGGTTTCTAGTAAGGGCAAAGTCAAGGGCCTGCCATTCTCTCGTGGTCTTG
 ATAATGAAATCAAAAACGAAATGGATTCCTTTAATGGCCCAAGTCATGAGAATATAATAACACATGGCAG
 AAAATATCATTATGTACCCACAGACAAAATAATTCTACAGGAATAAGGGTATGCCACAAGGAAAGGC
 TCCTGGGGTAGACAACCCATTCCAACAGGAGTTTAGTTCCTGAGAAGGGATGACAGTGTGAGTCAT
 CTGACAGTGGCAGTTCAAGTGAGAGCGATGGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223827 representing NM_020203
 Red=Cloning site Green=Tags(s)

MRVFCVGLLLFSVTWAAPTFFQPQTEKTKQSCVEEQRQEEKNKDNIGFHHLGKRINQELSSKENIVQERKK
 DLSSLSEASENKGSKSQNYFTNRQRLNKEYSISNKENTHNLRLMSIYPKSTGNKGFEDGDDAISLHDQE
 EYGAALIRNNMQHIMGPVTAIKLLGEENKENTPRNVLNIIPASMNYAKAHSKDKKKPQRDSQAQKSPVKS
 KSTHRIQHNIDYLLKHLKSKVKIPSDFEFGSYDLQERGDNDISPFSGDQPFKDIIPGKGEATGPDLEGKD
 IQTGFAFPSEAESTHLDTKKPGYNEIPEREENGGNTIGTRDETAKEADAVDVSLEGSNDIMGSTNFKEL
 PGREGNRVDAGSQNAHQKVEFHYPAPSKEKRKEGSSDAAESTNYNEIPKNGKSTRKGVGDHSNRNQAT
 LNEKQRFPSKGSQGLPIPSRGLDNEIKNEMDSFNPSHENIITHGRKYHYVPHRQNNSTRNKGMPQKGG
 SWGRQPHSNRRFSSRRRDDSSSSDSGSSSESDDG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_020203

ORF Size: 1575 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_020203.4](#)

RefSeq Size: 1979 bp

RefSeq ORF: 1578 bp

Locus ID: 56955

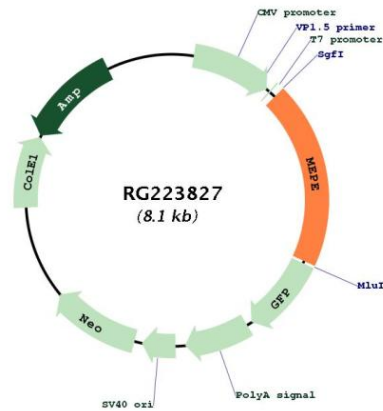
UniProt ID: [Q9NQ76](#)

Cytogenetics: 4q22.1

Protein Families: Secreted Protein

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 RG223827