

Product datasheet for **RG230031**

MEPE (NM_001184695) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEPE (NM_001184695) 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)
ORF Nucleotide Sequence:	>RG230031 representing NM_001184695 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAATTTATCCTAAGTCAACTGGAATAAAGGGTTTGAGGATGGAGATGATGCTATCAGCAAACACTAC
ATGACCAAGAAGAATATGGCGCAGCTCTCATCAGAAATAACATGCAACATATAATGGGGCCAGTGACTGC
GATTAACCTCTGGGGGAAGAAAACAAAGAGAACACACCTAGGAATGTTCTAAACATAATCCCAGCAAGT
ATGAATTATGCTAAAGCACACTCGAAGGATAAAAAGAAGCCTCAAAGAGATTCCTCAAGCCAGAAAAGTC
CAGTAAAAGCAAAGCACCCATCGTATTCAACACAACATTGACTACCTAAAACATCTCTCAAAAGTCAA
AAAAATCCCAGTGATTTTGAAGGCAGCGTTATACAGATCTTCAAGAGAGAGGGGACAATGATATATCT
CCTTTCAGTGGGGACGGCCAACCTTTAAAGGACATTCTGGTAAAGGAGAAGCTACTGGTCTGACCTAG
AAGGCAAAGATATTCAAACAGGGTTTGCAGGCCAAAGTGAAGCTGAGAGTACTCATCTTGACACAAAAAA
GCCAGGTATAATGAGATCCCAGAGAGAGAAGAAAATGGTGGAAATACCATGGAACTAGGGATGAAACT
GCGAAAGAGGCAGATGCTGTTGATGTCAGCCTGTAGAGGGCAGCAACGATATCATGGGTAGTACCAATT
TTAAGGAGCTCCCTGGAAGAGAAGGAAACAGAGTGGATGCTGGCAGCCAAAATGCTCACCAAGGGAAGGT
TGAGTTTCATTACCCTCCTGCACCCTCAAAGAGAAAAGAAAAGAAGGCAGTAGTGATGCAGCTGAAAGT
ACCAATAAATGAAATTCCTAAAAATGGCAAAGGCAGTACCAGAAAGGGTGTAGATCATTCTAATAGGA
ACCAAGCAACCTTAAATGAAAAACAAAGGTTTCCTAGTAAGGGCAAAGTCAGGGCCTGCCATTCTTTC
TCGTGGTCTTGATAATGAAATCAAAAACGAAATGGATTCTTTAATGGCCCCAGTCATGAGAATATAATA
ACACATGGCAGAAAATATCATTATGTACCCACAGACAAAATAATTCTACACGGAATAAGGGTATGCCAC
AAGGAAAGGCTCCTGGGTAGACAACCCATTCCAACAGGAGGTTTAGTTCCCGTAGAAGGGATGACAG
TAGTGAGTCATCTGACAGTGGCAGTTCAAGTGAGAGCGATGGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230031 representing NM_001184695
 Red=Cloning site Green=Tags(s)

MSIYPKSTGNKGFEDGDDAISKLHDQEEYGAALIRNNMQHIMPVTAIKLLGEENKENTPRNVLNIIPAS
 MNYAKAHSKDKKKPQRDSQAQKSPVKSKSTHRIQHNIDYLKHLKVVKKIPSDFEFGSYDLQERGDNDIS
 PFSGDGQPFKDIIPGKGEATGPDLEKDIQTGFAGPSEAESTHLDTKKPGYNEIPEREENGNTIGTRDET
 AKEADAVDVSLVEGSNDIMGSTNFKELPGREGNRVDAGSQNAHQKVEFHYPAPPSKEKRKEGSSDAAES
 TNYNEIPKNGKGSSTRKGVDSNRNQATLNEKQRFPSKGSQGLPIPSRGLDNEIKNEMDSFNPSHENII
 THGRKYHYVPHRQNNSTRNKGMPQGKGSWGRQPHSNRRFSSRRRDDSSSESDSGSSSESDDGD

TRTRPLE - GFP Tag - V

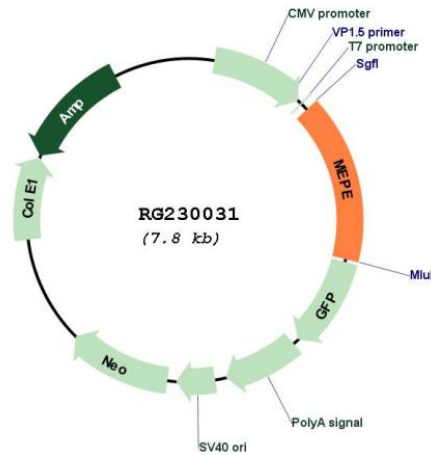
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001184695

ORF Size:	1236 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_001184695.2
RefSeq Size:	2113 bp
RefSeq ORF:	1239 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]