

## Product datasheet for **RG230032**

### MEPE (NM\_001184696) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEPE (NM_001184696) 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:	>RG230032 representing NM_001184696 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAATTTATCCTAAGTCAACTGGAATAAAGGGTTTGAGGATGGAGATGATGCTATCAGCAAACACTAC  
ATGACCAAGAAGAATATGGCGCAGCTCTCATCAGAAATAACATGCAACATATAATGGGGCCAGTGACTGC  
GATTAACCTCTGGGGGAAGAAAACAAAGAGAACACACCTAGGAATGTTCTAAACATAATCCCAGCAAGT  
ATGAATTATGCTAAAGCACACTCGAAGGATAAAAAAGAAGCCTCAAAGAGATTCCTCAAGCCCAGAAAAGTC  
CAGTAAAAAGCAAAGCACCCATCGTATTCAACACAACATTGACTACCTAAAACATCTCTCAAAAGTCAA  
AAAAATCCCAGTGATTTTGAAGGCAGCGTTATACAGATCTTCAAGAGAGAGGGGACAATGATATATCT  
CCTTTCAGTGGGGACGGCCAACCTTTAAAGGACATTCTGGTAAAGGAGAAGCTACTGGTCTGACCTAG  
AAGGCAAAGATATTCAAACAGGGTTTGCAGGCCAAAGTGAAGCTGAGAGTACTCATCTTGACACAAAAAA  
GCCAGGTATAATGAGATCCCAGAGAGAGAAGAAAATGGTGGAAATACCATTGGAAGTGGGATGAAACT  
GCGAAAGAGGCAGATGCTGTTGATGTCAGCCTTGTAGAGGGCAGCAACGATATCATGGGTAGTACCAATT  
TTAAGGAGCTCCCTGGAAGAGAAGGAAACAGAGTGGATGCTGGCAGCCAAAATGCTCACCAAGGGAAGGT  
TGAGTTTCATTACCCTCCTGCACCCTCAAAGAGAAAAAGAAAAGGAGCAGTGTAGATCATTCTAATAGGA  
ACCAAGCAACCTTAAATGAAAAACAAAGGTTTCCTAGTAAGGGCAAAAGTCAGGGCCTGCCATTCTTTC  
TCGTGGTCTTGATAATGAAATCAAAAACGAAATGGATTCTTTAATGGCCCCAGTCATGAGAATATAATA  
ACACATGGCAGAAAAATCATTATGTACCCACAGACAAAATAATTCTACACGGAATAAGGGTATGCCAC  
AAGGAAAGGCTCCTGGGTAGACAACCCATTCCAACAGGAGGTTTAGTTCCCGTAGAAGGGATGACAG  
TAGTGAGTCATCTGACAGTGGCAGTTCAAGTGAGAGCGATGGTGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG230032 representing NM\_001184696  
 Red=Cloning site Green=Tags(s)

MSIYPKSTGNKGFEDGDDAISKLDHQEEYGAALIRNNMQHIMGPVTAIKLLGEENKENTPRNVLNIIIPAS  
 MNYAKAHSKDKKKPQRDSQAQKSPVKSKSTHRIQHNIDYKHLKLVKIPSDFEFGSYDLQERGDNDIS  
 PFSGDGQPFKDIIPGKGEATGPDLEKDIQTGFAGPSEAESTHLDTKKPGYNEIPEREENGNTIGTRDET  
 AKEADAVDVSLVEGSNDIMGSTNFKELPGREGNRVDAGSQNAHQKVEFHYPAPSKERKREGSSDAAES  
 TNYNEIPKNGKGSSTRKGVDSNRNQATLNEKQRFPSKGSQGLPIPSRGLDNEIKNEMDSFNPSHENII  
 THGRKYHYVPHRQNNSTRNKGMPQKGSWGRQPHSNRRFSSRRRDDSSSESDSGSSSESDDGD

TRTRPLE - GFP Tag - V

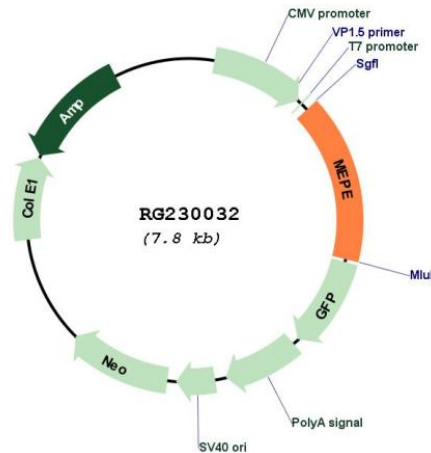
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001184696

<b>ORF Size:</b>	1236 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001184696.1</a> , <a href="#">NP_001171625.1</a>
<b>RefSeq Size:</b>	2135 bp
<b>RefSeq ORF:</b>	1239 bp
<b>Locus ID:</b>	56955
<b>UniProt ID:</b>	<a href="#">Q9NQ76</a>
<b>Cytogenetics:</b>	4q22.1
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	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]