

## Product datasheet for **SC303704**

### Meprin beta (MEP1B) (NM\_005925) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Meprin beta (MEP1B) (NM_005925) Human Untagged Clone
Tag:	Tag Free
Symbol:	Meprin beta
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_005925 edited  
 GGTACCCAAGCTACAACATGGATTTATGGAATCTGTCTTGGTTTCTGTTCTTGG  
 ATGCTCTTCTCGTGAATTTCTGGCTTGGCAACTCCAGAAAACCTTTGATGTAGATGGCGAA  
 TGGACCAGGACATATTTGATATCAATGAAGTTTGGGACTGGATCTTTTTGAAGGTGACA  
 TCAGACTTGATAGGGCACAAATTAGAAATCCATCATTGGAGAAAAGTATAGATGGCCTC  
 ATACCATTCCATATGTTCTAGAAGATAGCTTGGAAATGAATGCTAAGGGAGTTATCCTCA  
 ATGCATTTGAACGTTATCGCCTTAAAACATGTATTGACTTTAAGCCTTGGGCTGGAGAAA  
 CAAACTATATATCAGTGTTCAAGGGCAGTGGCTGCTGGTCTTTCAGTAGGAAATAGGCGGG  
 TTGGGAAGCAAGAACTTTCCATCGGGGCAAACTGTGACCGAATAGCAACAGTTCAACACG  
 AGTTCTCCACGCTCTGGGATTCTGGCATGAGCAGTCGCGTTCTGACCGGATGACTATG  
 TCAGGATAATGTGGGACAGAATTCTGTCAGGCAGAGAGCACAAATTTAACACCTATAGTG  
 ACGATATATCAGATTCCTGAATGTTCCCTATGATTACACTTCAGTAATGCACTACAGTA  
 AAAGTGCATTCAAAATGGAACAGAGCCGACAATTGTCACAAGAATCTCAGACTTTGAGG  
 ATGTGATCGGCCAACGAATGGATTTTCAGTACTCTGATCTCTAAAGTTGAATCAACTGT  
 ATAAGTCTCTCTTCTTGGAGTTTATGGACTCGTGCAGTTTTGAACTGGAAAATGTGT  
 GTGGCATGATCCAAAGTTTCAGGAGATAATGCTGACTGGCAACGGGTTTCAGAGTTCCCA  
 GGGGGCCAGAGAGTGATCACTCCAAACATGGGCCAGTGCCAAGGTTCTGGTTTCTTCATGC  
 ATTTTCGATAGCAGCTCTGTAATGTGGGGCCACAGCAGTGTGGAAAGTAGAACGCTGT  
 ACCCTAAAAGAGGATTTTCAGTGCCTGCAATTTTACTTATATAACAGTGGCAGTGAAGTG  
 ATCAACTGAACATCTATATCAGGGAGTATTCTGCAGACAATGTGGATGGCAATTTAACCC  
 TTGTGGAAGAAAATAAAGAAAATACCCACTGGGAGCTGGCAACTTTATCATGTAACATTGA  
 AAGTGACCAAGAAGTTTAGAGTGGTGTGTAAGGACGCAAGGCTCTGGTGCATCACTGG  
 GTGGTCTGTCTATTGATGACATCAATCTTTCGGAACACGGTGCCCTCATCATATCTGGC  
 ATATAAGGAATTTACACAGTTCATTGGCAGCCAAATGGAACCTGTATAGCCCTCCAT  
 TTTACTCTTCTAAAGTTATGCCTTTCAGATTTACTTAAATCTAGCCCATGTGACTAATG  
 CAGGGATATATTTCCACTTGATCTCTGGAGCCAATGATGATCAATTACAGTGGCCATGTC  
 CTTGGCAACAAGCCACAATGACACTTTTGGATCAAAATCCTGACATTCGACAGCGTATGT  
 CCAATCAGCGGAGTAACTACAGACCCATTTATGACCACCGATAATGGAACTATTTCT  
 GGGACAGGCCCTTCAAAGTGGGAACAGTGGCTTTGTTCCCTAATGGAACCTAGTTTAGAA  
 GAGGTGGGGCTATGGAACCAAGTGCCTTTATAACCCACGAAAGGCTGAAAAGCAGAGATT  
 TTATAAAAGGAGATGATGTTTATATCCTACTGACAGTGAAGACATATCTCACCTCAACT  
 CTACACAAATCCAGCTAACACCAGCCCTAGTGTTCAGACCTCTGCTCAAAAACCACT  
 GTAAAAATGACGGTGTCTGCACTGTTCCGAGATGGCAAAGCTGAGTGCAGGTGCCAGTCAG  
 GGAAGACTGGTGGTACATGGGAGAAAGGTGTGAAAAGAGAGGCTCCACCCGAGACACCA  
 TAGTCATTGCTGTTTCATCTACTGTTGCTGTGTTTGCCTTGATGCTGATCATCACCTTG  
 TCAGTGTCTATTGCACCAGGAAGAAATATCGTGAAGGATGAGCTCAAATCGACCAAATT  
 TGACTCCGCAAAATCAGCATGCTTTTTGAAGATTAAGTGCACAATATGGCCAGCTAATGA  
 AATTAAGGATTTTCATCATGGATTTTCGCTAAGTGAAGCTT

**Restriction Sites:** Please inquire

**ACCN:** NM\_005925

**Insert Size:** 2300 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<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>	<u><a href="#">NM_005925.1</a></u> , <u><a href="#">NP_005916.1</a></u>
<b>RefSeq Size:</b>	2326 bp
<b>RefSeq ORF:</b>	2103 bp
<b>Locus ID:</b>	4225
<b>UniProt ID:</b>	<u><a href="#">Q16820</a></u>
<b>Cytogenetics:</b>	18q12.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	<p>Meprins are multidomain zinc metalloproteases that are highly expressed in mammalian kidney and intestinal brush border membranes, and in leukocytes and certain cancer cells. They are involved in the hydrolysis of a variety of peptide and protein substrates, and have been implicated in cancer and intestinal inflammation. Mature meprins are oligomers of evolutionarily related, but separately encoded alpha and/or beta subunits. Homooligomers of alpha subunit are secreted, whereas, oligomers containing the beta subunit are plasma membrane-bound. This gene encodes the beta subunit. Targeted disruption of this gene in mice affects embryonic viability, renal gene expression profiles, and distribution of the membrane-associated alpha subunit in kidney and intestine. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>