

## Product datasheet for **SC115832**

### Methionine Aminopeptidase 2 (METAP2) (NM\_006838) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Methionine Aminopeptidase 2 (METAP2) (NM_006838) Human Untagged Clone
Tag:	Tag Free
Symbol:	Methionine Aminopeptidase 2
Synonyms:	MAP2; MNPEP; p67eIF2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC115832 sequence for NM\_006838 edited (data generated by NextGen Sequencing)

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ATGGCGGGTGTGGAGGAGGTAGCGGCCTCCGGGAGCCACCTGAATGGCGACCTGGATCCA
GACGACAGGGAAGAAGGAGCTGCCTCTACGGCTGAGGAAGCAGCCAAGAAAAAGACGA
AAGAAGAAGAAGCAAGGGCCTTCTGCAGCAGGGGAACAGGAACCTGATAAAGAATCA
GGAGCCTCAGTGGATGAAGTAGCAAGACAGTTGGAAGATCAGCATTGGAAGATAAAGAA
AGAGATGAAGATGATGAAGATGGAGATGGCGATGGAGATGGAGCAACTGGAAAGAAGAAG
AAAAAGAAGAAGAAGAAGAGAGGACCAAAAGTTCAAACAGACCCTCCCTCAGTTCCAATA
TGTGACCTGTATCCTAATGGTGTATTTCCCAAAGGACAAGAATGCGAATACCCACCCACA
CAAGATGGGCGAACAGCTGCTTGGAGAACTACAAGTGAAGAAAAGAAAGCATTAGATCAG
GCAAGTGAAGAGATTTGGAATGATTTTCGAGAAGCTGCAGAAGCACATCGACAAGTTAGA
AAATACGTAATGAGCTGGATCAAGCCTGGGATGACAATGATAGAAATCTGTGAAAAGTTG
GAAGACTGTTACGCAAGTTAATAAAAGAGAATGGATTAATGCAGGCCTGGCATTTCCT
ACTGGATGTTCTCTCAATAATTGTGCTGCCATTATACTCCCAATGCCGGTGACACAACA
GTATTACAGTATGATGACATCTGTAATAAGACTTTGGAACACATATAAGTGGTAGGATT
ATTGACTGTGCTTTACTGTCACTTTAATCCCAAATATGATACGTTATTAAGCTGTA
AAAGATGCTACTAACACTGGAATAAAGTGTGCTGGAATTGATGTTCTGTGTGATGTT
GGTGGAGCCATCCAAGAAGTTATGGAGTCTATGAAGTTGAAATAGATGGGAAGACATAT
CAAGTGAACCAATCCGTAATCTAAATGGACATTCAATTGGGCAATATAGAATACATGCT
GGAAAAACAGTGCCGATTGTGAAAGGAGGGGAGGCAACAAGAATGGAGGAAGGAGAAGTA
TATGCAATTGAAACCTTTGGTAGTACAGGAAAAGGTGTTGTTTCATGATGATATGGAATGT
TCACATTACATGAAAAATTTGATGTTGGACATGTCCAATAAGGCTTCCAAGAACAAAA
CACTTGTAAATGTCATCAATGAAAACCTTTGGAACCTTGCCTTCTGCCGCAGATGGCTG
GATCGCTTGGGAGAAAAGTAAATACTTGTGAGCTCTGAAGAATCTGTGTGACTTGGGCATT
GTAGATCCATATCCACCATTATGTGACATTAAGGATCATATACAGCGCAATTTGAACAT
ACCATCCTGTTGCGTCCAACATGTAAGAAGTTGTGAGCAGAGGAGATGACTATTA
  
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Clone variation with respect to NM\_006838.3

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_006838 unedited

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NNNTTGTCAAAATTTGTATACGACTCACTATAGCGGCCCGCAATTTCGACGAGGGAAG
GATCGGGGCCCTCGCCGCTCTGTCTCATTCCCTCGCGCTCTCTCGGGCAACATGGCGGGT
GTGGAGGAGGTAGCGGCCTCCGGGAGCCACCTGAATGGCGACCTGGATCCAGACGACAGG
GAAGAAGGAGCTGCCTCTACGGCTGAGGAAGCAGCCAAGAAAAAAGACGAAAGAAGAAG
AAGAGCAAAGGGCCTTCTGCAGCAGGGGAACAGGAACCTGATAAAGAATCAGGAGCCTCA
GTGGATGAAGTAGCAAGACAGTTGGAAGATCAGCATTGGAAGATAAAGAAGAGATGAA
GATGATGAAGATGGAGATGGCGATGGAGATGGAGCAACTGGAAAGAAGAAGAAAAAGAAG
AAGAAGAAGAGAGGACCAAAAGTTCAAACAGACCCTCCCTCAGTTCCAATATGTGACCTG
TATCCTAATGGTGTATTTCCCAAAGGACAAGAATGCGAATACCCACCCACACAAGATGGG
CGAACAGCTGCTTGGAGAACTACAAGTGAAGAAAAGAAAGCATTAGATCAGGCAAGTGAA
GAGATTTGGAATGATTTTCGAGAAGCTGCAGAAGCACATCGACAAGTTAGAAAATACGTA
ATGAGCTGGATCAAGCCTGNGATGACAATGATAGAAATCTGTGAAAAGTTGGAAGACTGT
TCACGCAAGTTAATAAAAGAGAATGGATTAATGCANGCCTGGCATTTCCTACTGGATGN
TCTCTCAATAATTGTGCTGCCATTATACTCCCAATGCCGTGACACAACAGTATTACAG
TATGATGACANTCTGTAATAGACTTTGGAACCATATNAGTGGNTAGGGATATTGACTGT
GNCTTACT
  
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006838 unedited NNNTTTAGCTATGNACCCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGC TTTTGTGGCTTTAATACCCTTTTGGTTTTCTGAGCAAGCTGAATACATCCCTGATAAAC ACCACCACTGGACAAAGGATCTAAACATTGAGATTTTTACTAAATCAAGGTTTTGAGTTG GCACAATGTTCTACTAAGTCAAGTTTCAATTAGCACATCTTTCCAATGTCAGGAGAAAA AAAGACAAGGACTACTATGTCCTACAAAGAATGGTGAAATATTCCTAAAGCTGTATATTT ATGAAGAAAAGGTGATTGTCCTTTTATGCATGTGTAGATCTTGTTTTAGCCACTATGC CAGAAAAAGTCTCAGTGTAGAGGTCTACATTTTCAGATAAATGTCTCTGCATTTGCCTACAT TAAGTTTAGCTATTTATCCTGTCCAGAATTATAACCACAGACATTGAGATGTAGCTCTCA GATCTGAAAATGTCTTTATTTTTAGAAAATGGATTCCAGGAAGGTTAAAAAGCAACACC AGAGGGTATAGGTGCAGAACTGGATGTAGTCATTCAAAGCATTCAAGTAAGAATATGGCA ATATAAATATCCAAAAGTATCTCTTAGGTATTCAAACAAAACGTATAAGTCATTCTTA ACTAATTTGAGCTTTATAGCATTTTCTAGACAGGAAGGGGAAAAACAGTTAGCATTTAA AAGTCCGAAAAGCTTTTCGTTGGTTAATTACATTAGACGGTTTGCCTTTGTCCAAATTC CTTCTTTTTTAAACATGGNATANAGTATTACATGGGTCCACTGNTAANAACAGACACATG TGGCANATTAATTCTGGTATCATGTTTTNCCACAAAGCTCAGAAATAAAGTGNTGAGGTG GCTTGGACC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006838
<b>Insert Size:</b>	2320 bp
<b>OTI Disclaimer:</b>	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).
<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_006838.2</a> , <a href="#">NP_006829.1</a>
<b>RefSeq Size:</b>	1908 bp
<b>RefSeq ORF:</b>	1437 bp
<b>Locus ID:</b>	10988
<b>UniProt ID:</b>	<a href="#">P50579</a>
<b>Cytogenetics:</b>	12q22
<b>Domains:</b>	Peptidase_M24
<b>Protein Families:</b>	Druggable Genome, Protease

**Gene Summary:**

The protein encoded by this gene is a member of the methionyl aminopeptidase family. The encoded protein functions both by protecting the alpha subunit of eukaryotic initiation factor 2 from inhibitory phosphorylation and by removing the amino-terminal methionine residue from nascent proteins. Increased expression of this gene is associated with various forms of cancer, and the anti-cancer drugs fumagillin and ovalicin inhibit the protein by irreversibly binding to its active site. Inhibitors of this gene have also been shown to be effective for the treatment of obesity. A pseudogene of this gene is located on chromosome 2. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).