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Product datasheet for SC322467

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

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>OriGene sequence for SC322467
CTCTCGGGCAACATGGCGGGTGTGGAGGAGGTAGCGGCCTCCGGGAGCCACCTGAATGGC
GACCTGGATCCAGACGACAGGGAAGAAGGAGCTGCCTCTACGGCTGAGGAAGCAGCCAAG
AAAAAAAGACGAAAGAAGAAGAAGAGCAAAGGGCCTTCTGCAGCAGGGGAACAGGAACCT
GATAAAGAATCAGGAGCCTCAGTGGATGAAGTAGCAAGACAGTTGGAAAGATCAGCATTG
GAAGATAAAGAAAGAGATGAAGATGATGAAGATGGAGATGGCGATGGAGATGGAGCAACT
GGAAAGAAGAAGAAAAAGAAGAAGAAGAAGAGAGGACCAAAAGTTCAAACAGACCCTCCC
TCAGTTCCAATATGTGACCTGTATCCTAATGGTGTATTTCCCAAAGGACAAGAATGCGAA
TACCCACCCACACAAGATGGGCGAACAGCTGCTTGGAGAACTACAAGTGAAGAAAAGAAA
GCATTAGATCAGGCAAGTGAAGAGATTTGGAATGATTTTCGAGAAGCTGCAGAAGCACAT
CGACAAGTTAGAAAATACGTAATGAGCTGGATCAAGCCTGGGATGACAATGATAGAAATC
TGTGAAAAGTTGGAAGACTGTTCACGCAAGTTAATAAAAGAGAATGGATTAAATGCAGGC
CTGGCATTTCCTACTGGATGTTCTCTCAATAATTGTGCTGCCCATTATACTCCCAATGCC
GGTGACACAACAGTATTACAGTATGATGACATCTGTAAAATAGACTTTGGAACACATATA
AGTGGTAGGATTATTGACTGTGCTTTTACTGTCACTTTTAATCCCAAATATGATACGTTA
TTAAAAGCTGTAAAAGATGCTACTAACACTGGAATAAAGTGTGCTGGAATTGATGTTCGT
CTGTGTGATGTTGGTGAGGCCATCCAAGAAGTTATGGAGTCCTATGAAGTTGAAATAGAT
GGGAAGACATATCAAGTGAAACCAATCCGTAATCTAAATGGACATTCAATTGGGCAATAT
AGAATACATGCTGGAAAAACAGTGCCGATTGTGAAAGGAGGGGAGGCAACAAGAATGGAG
GAAGGAGAAGTATATGCAATTGAAACCTTTGGTAGTACAGGAAAAGGTGTTGTTCATGAT
GATATGGAATGTTCACATTACATGAAAAATTTTGATGTTGGACATGTGCCAATAAGGCTT
CCAAGAACAAAACACTTGTTAAATGTCATCAATGAAAACTTTGGAACCCTTGCCTTCTGC
CGCAGATGGCTGGATCGCTTGGGAGAAAGTAAATACTTGATGGCTCTGAAGAATCTGTGT
GACTTGGGCATTGTAGATCCATATCCACCATTATGTGACATTAAAGGATCATATACAGCG
CAATTTGAACATACCATCCTGTTGCGTCCAACATGTAAAGAAGTTGTCAGCAGAGGAGAT
GACTATTAAACTTAGTCCAAAGCCACCTCAACACCTTTATTTTCTGAGCTTTGTTGGAAA
ACATGATACCAGAATTAATTTGCCACATGTTGTCTGTTTTAACAGTGGACCCATGTAATA
CTTTTATCCATGTTTAAAAAAGAAGGAATTTGGACAAAGGCAAACCGTCTAATGTAATTA
ACCAACGAAAAAGCTTTCCGGACTTTTAAATGCTAACTGTTTTTCCCCTTCCTGTCTAGG
AAAATTCTATAAAGCTCAAATTAGTTAGGAATGACTTATACGTTTTGTTTTGAATACCTA
AGAGATACTTTTTGGATATTTATATTGCCATATTCTTACTTGAATGCTTTGAATGACTAC
ATCCAGTTCTGCACCTATACCCTCTGGTGTTGCTTTTTAACCTTCCTGGAATCCATTTTC
TAAAAAATAAAGACATTTTCAGATCTGAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_006838

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.

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_006838.3, NP_006829.1
RefSeq Size:	3506 bp
RefSeq ORF:	1437 bp
Locus ID:	10988
UniProt ID:	P50579
Cytogenetics:	12q22
Domains:	Peptidase_M24
Protein Families:	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).