

Product datasheet for **SC324358**

Thimet Oligopeptidase (THOP1) (NM_003249) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thimet Oligopeptidase (THOP1) (NM_003249) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thimet Oligopeptidase
Synonyms:	EP24.15; MEPD_HUMAN; MP78; TOP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003249.3
 GCCCCGGGAGCGCGGGCGGGCCCTTGGTCCTCAGGCGGCCGTGGCGGCGGTGGCGG
 CGGTTGGGCCGAGGCAGGCGGCCCTCAGTGGCCGAGGTGGCTGGACCGGTAGCAGGTGAA
 GGAGGGAGGGAGCCGAGGCGCAGACCCACCCGCCATGAAGCCCCCGCAGCCTGTGCAG
 GAGACATGGCGGACGCAGCATCTCCGTGCTCTGTGGTAAACGACCTGCGGTGGGACCTGA
 GTGCCCAGCAGATAGAGGAGCGCACCAGGGAGCTCATCGAGCAGACCAAGCGCGTGTATG
 ACCAGGTTGGCACCAGGAGTTTGGAGAGCTGCTCCTACGAGAGCACGCTCAAGGCGCTGG
 CCGATGTGGAGGTACCTACACAGTTTACAGAGGAATATCCTTGACTTCCCCCAGCATGTTT
 CCCCCTCAAGGACATCCGGACAGCCAGCACAGAGGCCGACAAGAAGCTCTCTGAGTTCCG
 ACGTGGAGATGAGCATGAGGGAGGACGTGTACCAGAGGATCGTGTGGCTCCAGGAGAAAAG
 TTCAGAAGGACTCACTGAGGCCGAGGCTGCGCGGTACCTGGAGCGGCTAATCAAGCTGG
 GCCGGAGAAAATGGGCTTACCTCCCCAGAGAGACTCAGGAAAACATCAAACGCATCAAGA
 AGAAGCTGAGCCTTCTGTGCATCGACTTCAACAAGAACCTGAACGAGGACACGACCTTCC
 TGCCCTTACAGCTCCAGGAGCTAGGAGGGCTCCCCGAGGACTTTCTGAACTCCCTGGAGA
 AGATGGAGGACGCAAGTTGAAGGTCACCCTCAAGTACCCCATTAATCCCCCTCCTGA
 AGAAATGCCACGTGCCTGAGACCAGGAGAAAGTGGAGGAGGCCCTCAACTGCCGGTGCA
 AGGAGGAGAACTGCGCTATCCTCAAGGAGCTGGTACGCTGCGGGCCAGAAAGTCCCCGC
 TGCTGGGGTTCCACACGCACGCCGACTATGTCTGGAGATGAACATGGCCAAGACCAGCC
 AGACCGTGGCCACCTTCTAGATGAGCTGGCGCAGAAGCTGAAGCCCCTGGGGGAGCAGG
 AGCGTGCGGTGATTCTGGAGCTGAAGCGTGCAGGAGTGCAGCGCCGGGGCCTGCCCTTCG
 ACGGCCGATCCGTGCCTGGGACATGCGCTACTACATGAACAGGTGGAGGAGACGCGCT
 ACTGCTGGACCAGAACCTGCTCAAGGAGTACTCCCCGTGACGTTGGTACGACGACGGGC
 TGCTGGGCATCTACCAGGAGCTCCTGGGGCTGGCCTTCCACCAGGAGGGGCCAGTG
 CCTGGCATGAGGACGTGCGGCTCTACACGCGAGGGACGCGGCCCTCGGGGAGGTGGTCCG
 GCAAGTTCTACCTGGACCTGTACCCGCGGAAGGAAAGTACGGGACGCGGCCTGCTTTG
 GCCTGCAGCCCGCTGCCTGCGGCAGGATGGGAGCCGCCAGATCGCCATCGCGGCCATGG
 TGGCCAACTTACCAAGCCACAGCCGACGCGCCCTCGTGTGCAGCATGACGAGGTGG
 AGACCTACTTCCATGAGTTTGGCCACGTGATGCACCAGCTCTGCTCCCAGGCGGAGTTCCG
 CCATGTTACGCGGACCCACGTGGAGCGGGACTTTGTGGAGGCGCCGTCGCAGATGCTGG
 AGAACTGGGTGTGGGAGCAGGAGCCGCTGCTGCGGATGTCGCGGCACTACCGCACAGGCA
 GCGCCGTGCCCGGGAGCTCCTGGAGAAGCTCATTGAGTCCCGCAGGCCAACACAGGCC
 TCTTCAACCTGCGCCAGATCGTCTCGCCAAGGTGGACCAGGCCCTGCACACGCAGACGG
 ACGCAGACCCCGCGAGGAGTATGCGCGGCTCTGCCAGGAGATCCTCGGGGTCCCAGGCCA
 CGCCAGGAACCAACATGCCTGCAACCTTCGGCCATCTGGCAGGTGGCTACGACGCCCACT
 ACTACGGGTACCTGTGGAGCGAGGTGATTTCCATGGACATGTTCCACACGCGCTTCAAGC
 AGGAGGGTGTCTGAACAGCAAGGTTGGCATGGATTACAGAAGCTGCATCCTGAGACCCG
 GCGGTTCCGAGGATGCCAGGCCATGCTGAGGCGCTTCTGGGCCGTGACCCCAAGCAGG
 ACGCCTTCTCTGAGCAAGGGGCTGCAGTTCGGGGCTGCGAGCCCGAGCCGACGAGTCT
 GCTGAGGCTGGCACTGCGACTGCCAGTCTGGCCTGCGCTCCCGCCGCTGGTGCCTT
 AGCCCCCGCACAGGATGGGGCAGGCTCTGGCACAGTGCCTGGACTGGCAGGGTGGCTG
 AGCGGCTGTCTTGCCTCTTGTATTGTCTGTCCCAACCCGGTCTGGCCACCCGCTAG
 AGACGGGCTCCTCAAGGCATCTGGAGGGCTTTCGTGGCTGCCAGGGCCTGGTCTTTGTTG
 CACTAACACGTCTCTCTGGGAAACGTCCTTGTGAGGAGACGGCTCTCTTTGAAAT
 GAGGTCATTAAGGAAACAGAAAAAGAGAAAAAAGAAAAAAGAAAAA

Restriction Sites: Please inquire

ACCN: NM_003249

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:	<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:	<u>NM_003249.3</u> , <u>NP_003240.1</u>
RefSeq Size:	2568 bp
RefSeq ORF:	2070 bp
Locus ID:	7064
UniProt ID:	<u>P52888</u>
Cytogenetics:	19p13.3
Domains:	Peptidase_M3
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Renin-angiotensin system
Gene Summary:	The protein encoded by this gene is a kininase that uses zinc as a cofactor. The encoded oligopeptidase cleaves cytosolic peptides, making them unavailable for display on antigen-presenting cells. This protein also cleaves neuropeptides under 20 aa in length and can degrade beta-amyloid precursor protein to amyloidogenic peptides. [provided by RefSeq, Nov 2015]