

## Product datasheet for **RN204893**

### Thop1 (NM\_172075) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thop1 (NM_172075) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Thop1
Synonyms:	EP24.15
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN204893 representing NM\_172075  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGCCCCCGCAGCCTGTGCTGGGGACGTGGTGGATACAGTGTACCATGCTCCACCGTGAATCATC  
 TGCCTGGGACCTGAGCGCACAGCAGATCAGAGCTCTAACACACAGCTCATCGAGCAGACCAAGTGTGT  
 GTACGACCGTGTGGGCGCCAGGACTTCGAGGACGTGTCTATGAGAGCACACTGAAGGCACTGGCTGAC  
 GTGGAGGTACCTACACAGTGCAGAGGAACATTCTCGACTTCCCCCAGCAGCTGTCTCCGAACAAGGACA  
 TCCGCGCAGCCAGCACAGAGGCTGACAAGAAGCTCTCAGAGTTTGTGTGGAGATGAGCATGAGGCGAGGA  
 CGTGTACCAGAGGCTCGTGTGGCTGCAGGAGAAAATCCCGAAAGACTCACTGAAGCCTGAGGCAGCTCGC  
 TACCTGGAGCGGCTCATCAAGCTGGGCCGAGAAACGGGCTCCACTTACCTCAGGACACACAGGAGAAGA  
 TCAAGAACATCAAGAAGAGGCTGAGCCTGCTGTGCATCGACTTCAACAAGAACCTGAATGAGGACACCAC  
 CTTCTGCCCTTACGAGAGAGGAGCTGGGCGGGCTCCCCGAGGACTTCTGAACTCCCTGGAGAAGACA  
 GAGGACGGCAAACCTGAAGGTCAACCTCAAGTATCCACACTATTTCCCACTGCTGAAGAAGTGCCACGTGC  
 CCGAGACACGACGCCTGTTGGAGGAGGCCTTCAACTGTCGCTGCAAGGAGGAGAACTGTGCCATCCTGAA  
 GGAGCTAGTGTCCCTGCGGGCGCAGAAGTCCAACCTGCTGGGATTCGACACACACGAGACTACGTCCTG  
 GAGATGAACATGGCCAAGACCAGTCAGACAGTAGCCACCTTCTAGATGAACTGGCCCGGAAGCTGAAGC  
 CGCTGGGTGAGCAGGAGCGTGCCTGATCCTGGAGCTGAAGGAGGAGAGTGCAGCAAGCGCGGGCTCCC  
 ATTCGATGGGCGCATCCACGCATGGGACATGCGGTACTACATGAACAGGTGGAGGAGACACGCTACCGC  
 GTAGACCAGAACCTGCTGAAGGAGTACTTCCCATGCAGTGGTACGCGTGGGCTGCTGGCCATCTACC  
 AAGAGCTGCTGGGCTGACCTTACGCTGGAGGAAGGTGCCCGCCTGGCAGCAAGACGTGCGGCTGTA  
 CTCTGTGCGTGACGCGCCTCTGGAGAGGAGATTGGCAAGTTCTACCTCGACCTGTACCCAGGGGAAGGG  
 AAGTATGGCCACGCGGCCTGCTTCGGCCTGCAGCCTGGCTGCCTACGGCAGGATGGCAGCCGACAGCTGG  
 CCATCGCAGCCATGGTGGCCAATTTACCAAGCCACACCTGACGTGCCTTCCCTGCTGCAGCAGATGA  
 GGTGGAGACCTACTTCCACGAGTTCGGGACGTCATGCACCAGCTCTGCTCACAGGCAGAGTTTGTATG  
 TTCAGTGGGACCCAGTGGAGCGGGACTTTGTGGAGGCACCGTACAGATGCTGGAGAAGTGGGTGTGGG  
 AAAAGGAGCCACTGATGCGCATGTCCAGCATTACCGCACAGGAGGCGAGGCCCTGAGGACCTCCTGGA  
 GAAGCTCATCAAGTCTCGCCAGGCAATGCAGGTCTCTCAACCTTCGGCAGATTGCTCCTTGCCAAGGTA  
 GATCAGGTCTGCACACACAGACAGATGTAGCCAGCTGAGGAATATGCCCGGCTCTGCCAGGAGATCC  
 TTGGGGTGCCAGCCACACAGGTACCAACATGCCAGCCACTTTTGGCCACCTCGCTGGTGGCTACGACGC  
 TCACTACTATGGCTACTTGTGGAGTGGGTGACTCCATGGACATGTTCCACACACGCTTCAAGCAGGAG  
 GGTGTGCTTAGCCCCAAGGTTGGCATGGATTACCGGACCAGCATCCTGAGGCCGGGGGGCTCTGAGGATG  
 CCAGCACCATGCTGAAGCAGTTCCTGGGCCGTGACCCCAAGCAAGACGCCTTCTCTGAGCAAGGGTCT  
 GCAGGTAGAGGGCTGCGAGCCACCTGCGTGC**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_172075

**Insert Size:** 2064 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).

<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_172075.2</a> , <a href="#">NP_742072.2</a>
<b>RefSeq Size:</b>	2408 bp
<b>RefSeq ORF:</b>	2064 bp
<b>Locus ID:</b>	64517
<b>UniProt ID:</b>	<a href="#">P24155</a>
<b>Cytogenetics:</b>	7q11
<b>Gene Summary:</b>	metallopeptidase that catalyzes the thiol-dependent cleavage of many neuropeptides [RGD, Feb 2006]