

## Product datasheet for **MC202864**

### Thop1 (NM\_022653) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thop1 (NM_022653) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Thop1
Synonyms:	A1131655; A1327041; EP24.15
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC031722 sequence for NM\_022653  
 CTCGGAGCTCGCGGGCGGGCGCCTCAGTCTGAGAGCGACAGCGGAGGAACTGGCTCAGGTGAGGCGA  
 GCTCCGAGGAGATCCCGACCGCACAGGCGTGAGGACCAGAGGAGGGCCGTCGCCGCTCGCGCGAGCCG  
 ACCGCCATGAAGCCCCCGCAGCCTGTGCTGGGGACGTGGTGGATGCAGCATCCCCAGCCTCCACTGTGA  
 ATCATCTTCGCTGGGATCTGAGCGCACAGCAGATCAGGGCTCTAACACGCAGCTCATCGAGCAGACAA  
 GTGTGTACGACCGAGTGGGTGCTCAGAACTTCGAGGATGTGTCGATGAGAGCACACTGAAGGCACTG  
 GCTGAGTGGAGTACCTACACAGTGCAGAGGAACATTCTCGACTTCCCCAACACGCTGCCCCGTGCA  
 AGGACATCCGTGCAGCCAGCACAGAGGCTGACAAGAAGCTCTCGAGTTTGATGTAGAGATGAGCATGAG  
 ACAGGACGTGTACCAGAGGGTCTGTGGCTGCAGGAGAAAACCCGAAAGATTCCCTGAAGCCTGAAGCA  
 GCTCGCTACCTGGAGCGGCTCATCAAGTGGGCCGAGAAAACGGCCTCCACTTACCTCAGGACACACAAG  
 AGAAGATCAAGAACATCAAGAAGAGGCTGAGCCTGCTGTGCATCGACTTCAACAAGAACCTCAACGAGGA  
 CACCACCTTCTGCCCTTACAAGAGAGGAGCTGGGTGGGCTCCCGGAGGACTTCTGAGCTCTCTGGAG  
 AAGGCAGAGGATGGCAAGCTGAAGTCAACCTCAAGTACCCTCACTACTCCCGTGTGGAAGAAGTGCC  
 ATGTGCCAGAGACAGACGCTGTGGAGGAGGCTTCAACTGTCGCTGCAAGGAGGAGAACTGTGCAAT  
 TCTGAAGGAGCTAGTGTCCCTGCGAGCACAGAAGTCCAGCCTGTGGGGTCCACACACACGCGGACTAC  
 GTCTGGAGATGAACATGGCCAAGACCAGTCAAACAGTAGCCACCTTCTAGATGAGCTGGCACAGAAGC  
 TGAAGCCCTGGGTGAGCAGGAGCGCGGTCATCCTGGAGCTGAAGGAGGCAGAGTGCGCCAAGCGGGG  
 ACTGCCATTGACGGGCGCATCCACGCATGGGACATGCGCTACTACATGAACCAGGTGGAGGAGACTCGC  
 TATCGTGTGGACCAGAACCTGCTGAAGGAGTACTTCCCCATGCAGGTGGTACACGTGGGCTGCTGGCCA  
 TCTACCAAGAGCTGCTGGGGTACCTTACGCTGGAGGAAGGTGCCGCTGCCTGGCAGGAGGACTGCG  
 GCTCTACTCAGTGGGGACGCCCTCTGGAGAGGAGATCGGCAAGTTCTACCTCGACCTATACCCAGG  
 GAAGGGAAATATGGCCATGCAGCCTGCTTGGCCTGCAGCCTGGTGCCTACGGCAGGATGGCAGCCGGC  
 AGCTGGCCGTCGCAGCCATGGTGGCAATTTACGAAGCCACACCTGACGCGCCGTCCTGCTGCAGCA  
 TGATGAGGTGGAGACCTACTTCCACGAGTTCGGGCACGTATGCCACAGCTGTGCTCGCAGGCGGAGTTT  
 GCCATGTTCAAGTGGGACCCAGTGGAGCGGACTTTGTGGAGGCGCCGTCGCCAGATGCTGGAGAAGTGGG  
 TGTGGGAGAAGGAGCCCCTGATGCGCATGTCTCAGCACTACCGCACGGGAGCGAGGCCCCCTCAGGACCT  
 CCTGGAGAAGCTCATCAAGTCTCGCCAGGCCAATGCAGGTCTCTTCAACCTGCGGAGATTTGTGCTTGC  
 AAGGTGGATCAGTCTGCACACACAGACAGACGACGACCCGGCTGAGGAATATGCCCGGCTTGCCAAG  
 AGATCCTCGGGTGCCAGCCACACCAGGTACCAACATGCCAGCCACTTTCGGCCACTAGCTGGCGGCTA  
 TGATGCTCAGTACTATGGTACTTATGGAGCGAAGTGTACTCGATGGACATGTTCCACACACGCTTCAAG  
 CAAGAGGGTGTGCTTAGCCCAAGTTGGCATGGACTACAGGACCAGCATCCTGAGGCCAGGGGCTCTG  
 AGGACGCCAGCGCATGCTGAAGCAGTTCTGGGCGCGACCCCAAGCAGGACGCCTTCTCCTGAGCAA  
 GGGTCTGCAGGTGGAGGGCAGCGAGGCGCCTGCGTGTGACCGGTCGCCAGCTCGCCGCCCTGTGCCTTA  
 GCCCAGCCTGCTGGGAGCTCAGCAACCCTTGGGCGTACAGATGAGCTTGGGGAAGTTTCCATCCTTGTG  
 CCACCCCGGCTCCAGGTCCCCTGGCCTCAGGCTGCCAGTGGTCTCCTTGCACTAGCCCCCTCCCAACCT  
 GATGTTGGACATTAACCTCCACACAGGGGCAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_022653

**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).

**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:** [BC031722](#), [AAH31722](#)

**RefSeq Size:** 2473 bp

**RefSeq ORF:** 2064 bp

**Locus ID:** 50492

**UniProt ID:** [Q8C1A5](#)

**Cytogenetics:** 10 39.72 cM

**Gene Summary:** Involved in the metabolism of neuropeptides under 20 amino acid residues long. Involved in cytoplasmic peptide degradation. Able to degrade the amyloid-beta precursor protein and generate amyloidogenic fragments (By similarity).[UniProtKB/Swiss-Prot Function]