

## Product datasheet for **MC204227**

### **Thpp1 (NM\_009906) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Thpp1 (NM_009906) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Thpp1
Synonyms:	Cl; Cln2; LPIC; TPP-1; TPP-I
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC024820  
 CCGACGCGTGGGGAAAGCCAAAATGGGACTCCAAGCCCGCCTCCTAGGGCTCCTTGTCTCTCGTCATCGCC  
 GGCAAAATGCACCTACAACCCTGAGCCGGACCGGTGGATGCTGCCTCCAGGCTGGGTGTCCCTGGGCC  
 GCGTGGATCCCGAGGAAGAGCTGAGTCTCACTTTTGGCGTGAAACAGCGGAACCTGGAAAGACTCTCGGA  
 GCTGGTGCAGGCTGTGTGGATCCTAGCTCTCCTCAATATGGAAGTACCTAACCTGGAGGATGTAGCT  
 GAGCTGGTTCAACCATCACCCCTGACCCCTCCTCACTGTCCAAAAGTGGCTCTCAGCAGCTGGAGCCCGGA  
 ACTGCATTTCAGTGACCACCCAGGACTTTCTGACTTGGCTGAGTGTCCGACAGGCTGAGCTGCTGCT  
 CCCAGGAGCTGAGTTTCATCGCTATGTAGGGGGACCTACAAAGACCCATGTTATAAGGTCCCACATCCC  
 TACCAGCTTCCCAGGCCTTGGCCCTCATGTGGATTTTGTGGGGGGCTGCACCGTTTCCCCCTTCAT  
 CTCCAAGACAACGTCCAGAACCACAACAGGTAGGAACTGTTAGCCTGCACTTGGGAGTGACTCCGTCTGT  
 GCTCCGTGAGGATACAACCTGACAGCCAAAGATGTGGGCTCAGGCACCACCAACAATAGCCAGGCTGT  
 GCCAGTTCCTGGAACAGTACTTCCATAACTCGGATCTGACTGAGTTCATGCGCCTATTCGGTGGCAGTT  
 TTACACACCAGGCCTCAGTAGCAAAAGTGTGGAAAGCAAGGGCGAGCCGAGCTGGGATCGAGGCCAG  
 TCTAGATGTGGAATACCTGATGAGTGTGGTGCCTAATCTCCACTTGGGTCTACAGTAGCCCTGGCCGC  
 CATGAGGCACAGGAGCCCTTCTACAATGGCTCCTGCTTCTTAGCAATGAGTCATCTTGGCACATGTAC  
 ATACTGTGAGTACGGAGACGATGAAGACTCCCTCAGCAGCATCTACATCCAGAGAGTCAACACTGAGTT  
 CATGAAGGCTGCTGCTCGGGTCTCACCCCTCTTTTGCCTCAGGTGACACTGGAGCTGGGTGTTGGTCT  
 GTCTCCGGAAGACACAAGTTCGGCCCTAGCTTCCCTGCTTCCAGCCCTATGTTACTACAGTTGGAGGAA  
 CCTCCTTCAAGAAATCCTTTCCTCATCACAGATGAAGTAGTTGACTATATCAGTGGTGGAGGCTTCAGCAA  
 TGTTTTCCACGGCCTCCCTACCAGGAGGAAGCAGTGGCCAGTCTTGAATCCAGCTCTCATCTACCA  
 CCATCCAGTACTTCAATGCTAGTGGCCGTGCCTACCCAGATGTTGCCCACTATCTGATGGCTACTGGG  
 TGGTCAGCAACATGGTCCCATTCCATGGGTATCTGGAACCTCGGCCCTACTCCAGTGTGGGGGAAT  
 TTTATCCTTGATAAATGAGCACAGAATCCTCAATGGCCGCCCTCCTTGGCTTTCTCAACCCAGGCTC  
 TATCAGCAGCATGGGACAGGACTCTTTGATGTAACCCACGGCTGCCATGAGTCTGTCTGAATGAAGAA  
 TGGAGGTCAGGGTTTCTGCTCTGGTCTGGTGGATCCTGTGACAGGTTGGGGAACCCCAACTTCCC  
 AGCCCTACTGAAGACCCTGCTCAACCCTTGACCCTTTCGTGCCATGACGAGAAAGCAGAAGTGTTCCTG  
 TACTAAAAGGGAAGGCTCAGTTTCTTGTATTCTCGATAGAAGCCCTGCTGAACCTGTTGCCTGCTG  
 CAGATAGCTTCTCCCTAACCCCTCAGATGCTGTGAACAGGACTCAACTCTCAATCTACTGTGCTCACC  
 AACTCAGTCTCCAACTTCTACTTCAAGATCCTCAACAAGATGCTATAACCAGCATATTTGTCTCACC  
 CCAACCCATCTCTCCTTCTTCCAGCTTGGATGTGAAAGCAGGGCAAGAAGTTCAGTCTTCCAT  
 TACTGACACTAGCAGGTCCACCAACGCTTACCACCTCTGCACTGACCGTACACTCTATTTCTTCCGGG  
 TTTGCTTTTCCGTTCACTGAAGTGAGACCTTTGACTAATCGTTTTGTCTTCTTCTCTCGGCACTGAAGT  
 ACAATGGTCTCCCAATGTTTTATCCAGTTATACCCCTTTTCAAGTGTGTTTTATGGGTTTTCTATTATA  
 AGAACAGGTTGTCAAAAAACCATTAATAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_009906

**Insert Size:** 1689 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:** [BC024820](#), [AAH24820](#)

**RefSeq Size:** 2279 bp

**RefSeq ORF:** 1689 bp

**Locus ID:** 12751

**UniProt ID:** [O89023](#)

**Cytogenetics:** 7 55.97 cM

**Gene Summary:** This gene encodes a lysosomal serine protease that cleaves N-terminal tripeptides from protein substrates. The encoded preproprotein undergoes autocatalytic processing to generate a mature enzyme. Mice lacking the encoded protein exhibit a progressive neurodegeneration and a greatly shortened lifespan. At the cellular level, mice lacking the encoded protein exhibit accumulation of autofluorescent lipopigments. Mutations in the human ortholog of this gene cause classical late-infantile neuronal ceroid lipofuscinosis. [provided by RefSeq, Nov 2015]