

Product datasheet for **SC324263**

TPP1 (NM_000391) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPP1 (NM_000391) Human Untagged Clone
Tag:	Tag Free
Symbol:	TPP1
Synonyms:	CLN2; GIG1; LPIC; SCAR7; TPP-1
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_000391.3
 CCGAAGGGCAGAAATGGGACTCCAAGCCTGCCTCCTAGGGCTCTTTGCCCTCATCCTCTCT
 GGCAAATGCAGTTACAGCCCAGGAGCCGACCGAGCGGAGGACGCTGCCCCAGGCTGGGTG
 TCCCTGGGCCGTGCGGACCCTGAGGAAGAGCTGAGTCTCACCTTTGCCCTGAGACAGCAG
 AATGTGGAAGACTCTCGGAGCTGGTGCAGGCTGTGTCGGATCCCAGCTCTCCTCAATAC
 GGAAAAATACCTGACCCTAGAGAATGTGGCTGATCTGGTGGAGCCATCCCCACTGACCCTC
 CACACGGTGCAAAAATGGCTCTTGGCAGCCGGAGCCCAAGAAGTGCATTCTGTGATCACA
 CAGGACTTTCTGACTTGCTGGCTGAGCATCCGACAAGCAGAGCTGCTGCTCCCTGGGGCT
 GAGTTTCATCACTATGTGGGAGGACCTACGGAACCCATGTTGTAAGGTCCCCACATCCC
 TACCAGCTTCCACAGGCCTTGGCCCCCATGTGGACTTTGTGGGGGACTGCACCCTTTT
 CCCCCAACATCATCCCTGAGGCAACGCTCCTGAGCCGAGGTGACAGGGACTGTAGGCCTG
 CATCTGGGGTAACCCCTCTGTGATCCGTAAGCGATAACAATTGACCTCACAAGACGTG
 GGCTCTGGCACCAGCAATAACAGCCAAGCCTGTGCCAGTTTCTGGAGCAGTATTCCAT
 GACTCAGACCTGGCTCAGTTCATGCGCCTCTTCGGTGGCAACTTGCACATCAGGCATCA
 GTAGCCCTGTGGTTGGACAACAGGGCCGGGGCCGGGCGGGATTGAGGCCAGTCTAGAT
 GTGCAGTACCTGATGAGTCTGGTGCCAACATCTCCACCTGGGTCTACAGTAGCCCTGGC
 CGGCATGAGGGACAGGAGCCCTTCTGCAGTGGCTCATGCTGCTCAGTAATGAGTCAGCC
 CTGCCACATGTGCATACTGTGAGCTATGGAGATGATGAGGACTCCCTCAGCAGCGCCTAC
 ATCCAGCGGGTCAACACTGAGCTCATGAAGGCTGCCGCTCGGGTCTCACCTGCTCTTC
 GCCTCAGGTGACAGTGGGGCCGGGTGTTGGTCTGTCTCTGGAAGACACGAGTTCGCCCT
 ACCTTCCCTGCCTCCAGCCCTATGTACCACAGTGGGAGGCACATCCTTCCAGGAACCT
 TTCCTCATCAAAATGAAATTGTTGACTATATCAGTGGTGGTGGCTTCCAGCAATGTGTT
 CCACGGCCTTCAACCAGGAGGAAGCTGTAACGAAGTTCCTGAGCTCTAGCCCCACTG
 CCACCATCCAGTTACTTCAATGCCAGTGGCCGTGCCTACCCAGATGTGGCTGCACCTTCT
 GATGGCTACTGGGTGGTCAAGCAGAGTGCCATTCCATGGGTGTCGGAACCTCGGCC
 TCTACTCCAGTGTGGGGGATCCTATCCTTGATCAATGAGCACAGGATCCTTAGTGGC
 CGCCCCCTCTTGGCTTCTCAACCCAAGGCTCTACCAGCAGCATGGGGCAGGACTCTTT
 GATGTAACCCGTGGCTGCCATGAGTCTGTCTGGATGAAGAGGTAGAGGGCCAGGGTTTC
 TGCTCTGGTCTGGTGGGATCCTGTAACAGGCTGGGGAACCCCAACTCCCAGCTTTG
 CTGAAGACTCTACTCAACCCCTGACCCTTCTATCAGGAGAGATGGCTGTCCCCTGCC
 CTGAAGCTGGCAGTTCAGTCCCTTATTCTGCCCTGTTGGAAGCCCTGCTGAACCCCAAC
 TATTGACTGCTGCAGACAGCTTATCTCCCTAACCTGAAATGCTGTGAGCTTGACTTGAC
 TCCCAACCTACCATGCTCCATCATACTCAGGTCTCCCTACTCCTGCCTTAGATTCTCA
 ATAAGATGCTGTAAGTAGCATTGTTTGAATGCCTCCTCCCGCATCTCATCTTTCTCTT
 TTCAATCAGGCTTTTCAAAGGGTGTATACAGACTCTGTGCACTATTTCACTTGATATT
 CATTCCCCAATCACTGCAAGGAGACCTCTACTGTACCCTTTACTCTTCTACCTGA
 CATCCAGAAACAATGGCCTCCAGTGCATACTTCTCAATCTTTGCTTTATGGCCTTCCAT
 CATAGTTGCCACTCCCTCTCCTTACTTAGCTTCCAGGCTTAACTTCTCTGACTACTCT
 TGTCTTCTCTCATCAATTTCTGCTTCTTATGGAATGCTGACCTTCAATTGCTCCATT
 TGTAGATTTTGTCTTCTCAGTTTACTCATTGTCCCCTGGAACAAATCACTGACATCTA
 CAACCATTACCATCTCACTAAATAAGACTTTCTATCCAATAATGATTGATACCTCAAATG
 TAAGATGCGTGATACTCAACATTTATCGTCCACCTTCCCAACCCCAAACAATCCATCT
 CGTTTCTTCTGGTAAATGATGCTATGCTTTTTTCAACCAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000391

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:	NM_000391.3 , NP_000382.3
RefSeq Size:	3540 bp
RefSeq ORF:	1692 bp
Locus ID:	1200
UniProt ID:	O14773
Cytogenetics:	11p15.4
Protein Families:	Protease
Protein Pathways:	Lysosome
Gene Summary:	This gene encodes a member of the sedolisin family of serine proteases. The protease functions in the lysosome to cleave N-terminal tripeptides from substrates, and has weaker endopeptidase activity. It is synthesized as a catalytically-inactive enzyme which is activated and auto-proteolyzed upon acidification. Mutations in this gene result in late-infantile neuronal ceroid lipofuscinosis, which is associated with the failure to degrade specific neuropeptides and a subunit of ATP synthase in the lysosome. [provided by RefSeq, Jul 2008]