

## Product datasheet for **MC228147**

### Tysnd1 (NM\_001272090) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tysnd1 (NM_001272090) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tysnd1
Synonyms:	1300019N10Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228147 representing NM\_001272090  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCGGCAATGGGGACCCTCTATGAGAGTGGCGGAGCAGCGGGCTGCGTGGT**GAGCGCCTCGCGGG**  
 CCGGACAGCCTGACGCGGGCTCGTGGAGCTGCAGCGGGTGATTCTGAGCCGTAACCCAGGCCTAGTGCT  
 GTGCCACGGAGGCATCTTTACCCCTTCTGCGGACGGGACGCGGGCGCTGACCCAGACGGGCACCGCC  
 TTCCTGCCGGGACAGTTGCAGCGATGACCTACGTCTCCACGTGCAGTGGGACCCACGGCTGCCAGCC  
 CTGCCGGTGCAGCGGATCAGGAACCTCCGGGGCTGTGCACGCCTCAGTGCCAAGCCTGGGCCTCGAACC  
 CGGCGCCCGAGCCGGGCCGCGCGGGCTCTGCAGCCCCGCGACCAGCGCAGCTGCTGTTGCTGCTC  
 AGCTGCCCGCCCTCCGCTCGCATTTTCGCTCGGCTCTTCGGGGCCGATGCGGTGCATCAATGGCACTTCG  
 TAAGCTCGGCGCCGACGATGCGGTTTCGGAGGAGGAAGAGGAGGACCAGCTGCGCGCCTCGGCTGGTT  
 CGCCCTGCTGCGGGTGCAGCGGGCGCGGGCGGAGGAGGCGCGGACCGGTGGT**GACCGTGGCACCCG**  
 CTCGGGGCCGTGGTCAAGGGCGCACCGCTGTTGGCTTGTGGCTCTCCGTTCCGGTGCCTTCTGCCCGACA  
 TCTTCTCAACACGCTGAGCCGCGGGCTGCTCAGCAACGCGGCCGGGCCGCTGCTGCTCACCGACGCGCG  
 CTGCTGCCGGGCACGGAAGGCGCGGAGTGTTCGCCGCTCGACCTGCGGGTGCCTGGTGGCTCTGGTG  
 GCCGCGCCGCTCTGCTGGAAGGCCCGGAGTGGTGGGCTCACGCTGCTGTGCGCCGCCCGCCCGCTGC  
 TTCAGGTTGCCCGCTGGGCGCTCGCCGCTGCACCCCGGCTCCGCTTCCCTGTCTGTGCTGCTGCCGCC  
 ACCCGATGTGAGCACGCCACGGGGCTGCCTCTGCGCATCTCGGACCCCGTGGGCGCCCGCGGGTGC  
 CTGGTGGAGTGTGGTACCGTGTGGGCTCCGGAGTGGTGTGGCGCTCGCTGGTGGTCACTGTCCGCTG  
 ATGTGGCACCCCGGAAGCAGCCAGGGTGTGGTACACTCCGCTACACCCAAGAATGTGGCAATCTGGGG  
 ACAAGTGGTGTTCGCACTCAGGAGACCTCTCCATATGACATAGCAGTGGTGGCCTGGAAGAGGAGCTG  
 AATGGTGTTCACGCGCTGTCCCTGCTGGGCACTTCCATGAAGGCTGCGGGCCCTCGGTGACCTCAGGC  
 ATCCTGTGCGCCGTGGTGCCTGTGGATGGCAGCCCGGTGATGCTACAGACCAGTGCCTGTGCATGGCG  
 GCTCCAGCGGAGGACCTCTTTCTCCTCGGGCTCCGGGGACCTCCTGGGCATTGTGCCAGCAACTCG  
 AGACAACAACACGGGAGCCACTACCCACACTGAACTTACAGCATCCCCATCACGGTGTCCAGCCAGCC  
 CTGAAGCAGTACAGTCACTGG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001272090

**Insert Size:** 1566 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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:** [NM\\_001272090.1](#), [NP\\_001259019.1](#)

**RefSeq Size:** 2245 bp

**RefSeq ORF:** 1566 bp

**Locus ID:** 71767

**UniProt ID:** [Q9DBA6](#)

**Cytogenetics:** 10 B4

**Gene Summary:** This gene encodes a protease that removes the N-terminal peroxisomal targeting signal (PTS2) from proteins produced in the cytosol, thereby facilitating their import into the peroxisome. The encoded protein is also capable of removing the C-terminal peroxisomal targeting signal (PTS1) from proteins in the peroxisomal matrix. The full-length protein undergoes self-cleavage to produce shorter, potentially inactive, peptides. Alternative splicing results in multiple transcript variants for this gene. [provided by RefSeq, Jan 2013]  
Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (b) is shorter and has a distinct C-terminus, compared to isoform a.