

## Product datasheet for **MR230358**

### **Tysnd1 (NM\_001272090) Mouse Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>MR230358 representing NM\_001272090  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCGCAATGGGGACCCTCTATGAGAGTGGCGGAGCAGCGGGCTGCGTGGT**GAGCGCTCGCGG**  
 CCGGACAGCCTGACGCGGGCTCGTGGAGCTGCAGCGGGTGATTCTGAGCCGTA**ACCAGGCCTAGTGCT**  
 GTGCCACGGAGGCATCTTTACCCCTTCTCGCGACGGGACGCGGGCGTGACCCAGACGGGCACCGCC  
 TTCTGCGGGGACAGTTGCAGCGATGACCTACGCTCCACGTGCAGTGGGACCCACGGCTGCCAGCC  
 CTGCGGGTGCAGCGGATCAGGA**ACTCCCGGGCTGTGCACGCCTCAGTGC**CAAGCTGGGCTCGAACC  
 CGGCGCCCGAGCCGGGCCCGCGCGGGCTCTGCAGCCCGCGACAGCGCAGCTGCTGTTGCTGCTC  
 AGCTGCCCGCCCTCCGCTCGCATTTCGCTCGGCTCTTCGGGGCCGATGCGGTGATCAATGGCACTTCG  
 TAAGCTCGGCGCCGACGATGCGGTTTCGGAGGAGGAAGAGGAGGACCAGCTGCGCGCCTCGGCTGGTT  
 CGCCCTGCTGCGGGTGCAGCGGGCGCGGGCGGAGGAGGCGCGGACCGGTGGT**GACCGTGGCACCG**  
 CTGCGGGCCGTGGTCAAGGGCGCACCGCTGTTGGCTTGTGGCTCTCCGTTCCGGTGCCTTCTGCCCGACA  
 TCTTCTCAACACGCTGAGCCCGGGCGTCTCAGCAACGCGGCCGGGCCGCTGCTGCTCACCGACGCGCG  
 CTGCTGCCGGGACGGAAGGGCGCGGAGTGTTCGCCGCTCGACCTGCGGGTGCCTGGTGGCTCTGGTG  
 GCCGCGCCGCTCTGCTGGAAGGCCCGGAGTGGTGGGCTCACGCTGCTGTGCGCCGCCCGCCCGCTGC  
 TTCAGGTTGCCCGCTGGGCGCTCGCCGCTGCACCCCGCTCCGCTTCCCTGTCTGTGCTGCTGCCGCC  
 ACCCGATGTGAGCACGCCACGGGGCTGCCTCTGCGGATCTCGGACCCCGTGGCGGCCCGCGGGTGC  
 CTGGTGGAGTGTGGTACCGTGTGGGCTCCGAGTGGTGGTGGCGCTCGCTGGTGGTCACTGTCCGCG  
 ACAAGTGGTGTTCGCACTCAGGAGACCTCCATATGACATAGCAGTGGT**GAGCCTGGAAGAGGAGCTG**  
 AATGGTGTCCACGCTGTCCCTGCTGGGCACTTCCATGAAGGCTGCGGGCCCTCGGTGACCTCAGGC  
 ATCCTGTGCGCCGTGGTGCCTGTGGATGGCAGCCCGGTGATGCTACAGACCACGTGCGCTGTGCATGGCG  
 GCTCCAGCGGAGGACCTCTTCTCCTCGGGCTCCGGGACCTCCTGGGCATTGTCGCCAGCAACTCG  
 AGACAACAACACGGGAGCCACTACCCACACTGAACTT**CAGCATCCCCATCACGGT**GCTCCAGCCAGCC  
 CTGAAGCAGTACAGT**CAGACTGG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230358 representing NM\_001272090  
 Red=Cloning site Green=Tags(s)

MGRQWGPSMRVAEQAGCVVSASRAGQPDAGSWSCSGVILSRNPGLVLCHGGIFTPFLRTGSAALTQTGTA  
 FLPGDSCSDDLRLHVQWGPTAASPAGRADQELPGLCTPQCASLGLEPGAPSRARARPLQPPRPAQLLLLL  
 SCPAFRSHFARLFGADAVDQWHFVSSAPDDAVSEEEEEQLRALGWFALLRVQRGAAAEERRGPVTVAP  
 LGAVVKGAPLLACGSPFGAFCPDIFLNTLSRGVLSNAAGPLLLTDARCLPGTEGGGVFAARPAGALVALV  
 AAPLCWKAREWVGLTLLCAAAPLLQVARWALARLHPGSASLSVLLPPPDVSTPRGLPLRDLGPPWAAAAV  
 LVECGTVWGSVGVVAPRLVVTCTRHVAPREARVLVHSATPKNVAIWGQVVFATQETSPYDIAVVSLEEEEL  
 NGVPTVPAGHFHEGLRALGDLRHPVGRGACGWQPGDATDHVRCARWLQRRSLLLLGLRPPPGHCRQQHS  
 RQHGSHLPTPELQHPHHGAPASPEAVQSDW

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001272090
<b>ORF Size:</b>	1563 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001272090.1</a> , <a href="#">NP_001259019.1</a>
<b>RefSeq Size:</b>	2245 bp
<b>RefSeq ORF:</b>	1566 bp
<b>Locus ID:</b>	71767
<b>UniProt ID:</b>	<a href="#">Q9DBA6</a>
<b>Cytogenetics:</b>	10 B4
<b>MW:</b>	55.2 kDa
<b>Gene Summary:</b>	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]