

## Product datasheet for **MR216163**

### Tysnd1 (NM\_027912) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tysnd1 (NM_027912) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tysnd1
Synonyms:	1300019N10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR216163 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGCGGCAATGGGGACCCTCTATGAGAGTGGCGGAGCAGCGGGCTGCGTGGT**GAGCGCCTCGCGGG**  
 CCGGACAGCCTGACGCGGGCTCGTGGAGCTGCAGCGGGGTGATTCTGAGCCGTAACCCAGGCCTAGTGCT  
 GTGCCACGGAGGCATCTTTACCCCTTCTGCGGACGGGACGCGGGCGCTGACCCAGACGGCACCGCC  
 TTCCTGCCGGGCGACAGTTGCAGCGATGACCTACGTCTCCACGTGCAGTGGGACCCACGGCTGCCAGCC  
 CTGCCGGTGCAGCGGATCAGGAACCTCCCGGGCTGTGCACGCCTCAGTGCACAAGCTGGGCCTCGAACC  
 CGGCGCCCGAGCCGGGCCGCGCGGGCTCTGCAGCCCCGCGACCAGCGCAGCTGCTGTTGCTGCTC  
 AGCTGCCCGCCCTCCGCTCGCATTTTCGCTCGGCTCTTCGGGGCCGATGCGGTGATCAATGGCACTTCG  
 TAAGCTCGGCGCCGACGATGCGGTTTCGGAGGAGGAAGAGGAGGACCAGCTGCGCGCGCTCGGCTGGTT  
 CGCCCTGCTGCGGGTGCAGCGGGCGCGCGGGCGGAGGAGGCGCGGACCGGTGGT**GACCGTGGCACCCG**  
 CTGCGGGCCGTGGTCAAGGGCGCACCGCTGTTGGCTTGTGGCTCTCCGTTCCGGTGCCTTCTGCCCGACA  
 TCTTCTCAACACGCTGAGCCGCGGGCTGCTCAGCAACGCGGCCGGGCCGCTGCTGCTCACCGACGCGCG  
 CTGCTGCCGGGACGGAAGGCGCGGAGTGTTCGCCGCTCGACCTGCGGGTGCCTGGTGGCTCTGGTG  
 GCCGCGCCGCTGCTGGAAGGCCCGGAGTGGTGGGCTCACGCTGCTGTGCGCCGCCCGCCCGCTGCTC  
 TTCAGTTGCCCGCTGGGCGCTCGCCGCTGCACCCCGCTCCGCTTCCTGTCTGTGCTGCTGCCGCC  
 ACCCGATGTGAGCACGCCACGGGCTGCCTCTGCGCATCTCGGACCCCGTGGCGGCCCGCGGGTGC  
 CTGGTGGAGTGTGGTACCGTGTGGGCTCCGAGTGGTGTGGCGCTCGCTGGTGGTCACTGTCCGCG  
 ATGTGGCACCCCGGAAGCAGCCAGGGTGTGGTACACTCCGCTACACCCAAGAATGTGGCAATCGGGG  
 ACAAGTGGTGTTCGCACTCAGGAGACCTCCATATGACATAGCAGTGGT**GAGCCTGGAAGAGGAGCTG**  
 AATGGTGTCCACGCTGTCCCTGCTGGGCACTTCCATGAAGGCGAGCCTGTCAGCGTGGTGGGCTTTG  
 GTGCTTTGGCCAGGCTGCGGGCCCTCGGTGACCTCAGGCATCCTGTCGGCCGTTGGTGGTGGATGG  
 CAGCCCGGTGATGCTACAGACCAGTGCCTGTGCATGGCGGCTCCAGCGGAGGACCTCTTCTCCTCG  
 GGCTCCGGGACCTCCTGGCATTGTGCCAGCAACACTCGAGACAACAACAGGGAGCCACCTACCCAC  
 ACCTGAACCTCAGCATCCCCATCAGGTGCTCCAGCCAGCCCTGAAGCAGTACAGTCACTGCTGACCT  
 GGGTGGCCTCCGAGAGCTGGACCACACCACTGAGCCGGT**CAGGGT**CGTGTGGCGGCTGCAGCGGCCCTG  
 TCCGAAGTCCACGGAGCAAGCTC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216163 protein sequence  
 Red=Cloning site Green=Tags(s)

MGRQWGPMRVAEQAGCVVSASRAGQPDAGSWSCSGVILSRNPGLVLCGGIFTPFLRTGSAALTQTGTA  
 FLPGDSCSDDLRLHVQWGPTAASPAGRADQELPGLCTPQCASLGLGEPGAPSRARARLPQPPRPAQLLLLL  
 SCPAFRSHFARLFGADAVDQWHFVSSAPDDAVSEEEEEQLRALGWFALLRVQRGAAAEERRGPVTVAP  
 LGAVVKGAPLLACGSPFGAFCPDIFLNTLSRGVLSNAAGPLLLTDARCLPGTEGGGVFAARPAGALVALV  
 AAPLCWKAREWVGLTLLCAAAPLLQVARWALARLHPGSASLSVLLPPPVDVSTPRGLPLRDLGPPWAAAAV  
 LVECGTVWGSVGVVAPRLVVTCTRHVAPREARVLVHSATPKNVAIWGQVVFATQETSPYDIAVVSLEEEL  
 NGVPTVPAGHFHEGEPVSVVGFVFGQACGPSVTSGLLSAVVRVDGSPVMLQTTCAVHGGSSGGPLFSS  
 GSGDLLGIVASNTRDNTGATYPHLNFSIPITVLPALKQYSQTGDLGGLRELDHTEPVRVWRLQRPL  
 SEVPRSKL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_027912

**ORF Size:** 1707 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_027912.1](#), [NP\\_082188.1](#)

**RefSeq Size:** 2286 bp

**RefSeq ORF:** 1707 bp

**Locus ID:** 71767

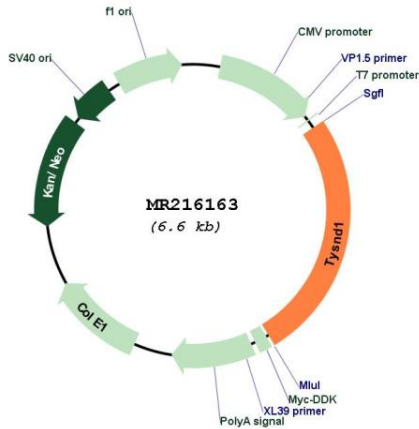
**UniProt ID:** [Q9DBA6](#)

**Cytogenetics:** 10 B4

MW: 59.1 kDa

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]

Product images:



Circular map for MR216163