

Product datasheet for **MR230296**

Tysnd1 (NM_001272092) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tysnd1 (NM_001272092) 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:

>MR230296 representing NM_001272092
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCGGCAATGGGGACCCTCTATGAGAGTGGCGGAGCAGCGGGCTGCGTGGT**GAGCGCCTCGCGGG**
 CCGGACAGCCTGACGCGGGCTCGTGGAGCTGCAGCGGGGTGATTCTGAGCCGTAACCCAGGCCTAGTGT
 GTGCCACGGAGGCATCTTTACCCCTTCTGCGGACGGGACGCGGGCGCTGACCCAGACGGGCACCGCC
 TTCCTGCCGGGGACAGTTGCAGCGATGACCTACGTCTCCACGTGCAGTGGGGACCCACGGCTGCCAGCC
 CTGCCGGTGCAGCGGATCAGGAACCTCCGGGGCTGTGCACGCCTCAGTGCACAAGCTGGGCCTCGAACC
 CGGCGCCCGAGCCGGGCCCGCGCGGGCTCTGCAGCCCCGCGACCAGCGCAGCTGCTGTTGCTGCTC
 AGCTGCCCGCCCTCCGCTCGCATTTTCGCTCGGCTCTTCGGGGCCGATGCGGTGATCAATGGCACTTCG
 TAAGCTCGGCGCCGACGATGCGGTTTCGGAGGAGGAAGAGGAGGACCAGCTGCGCGCCTCGGCTGGTT
 CGCCCTGCTGCGGGTGCAGCGGGCGCGCGGGCGGAGGAGAGGCGCGGACCGGTGGT**GACCGTGGCACCC**
 CTGCGGGCCGTGGTCAAGGGCGCACCGCTGTTGGCTTGTGGCTCTCCGTTGCGGTGCCTTCTGCCCGACA
 TCTTCTCAACACGCTGAGCCGCGGGCTGCTCAGCAACGCGGCCGGGCCGCTGCTGCTCACCGACGCGCG
 CTGCTGCCGGGCACGAAGGCGCGGAGTGTTCGCCGCTCGACCTGCGGGTGCCTGGTGGCTCTGGT
 GCCGCGCCGCTGCTGGAAGGCCCGCGAGTGGTGGGCTCACGCTGCTGTGCGCCGCCCGCCCGCTGC
 TTCAGTTGCCCGCTGGCGCTCGCCGCTGCACCCCGCTCCGCTTCCCTGTCTGTGCTGCTGCCGCC
 ACCCGATGTGAGCACGCCACGGGGCTGCCTCTGCGCATCTCGACCCCGTGGCGGCCCGCGGGT
 CTGGTGGAGTGTGGTACCGTGTGGGCTCCGGAGTGGTGTGGCGCTCGCTGGTGGTCACTGTCCG
 ATGTGGCACCCCGGAAGCAGCCAGGGTGTGGTACACTCCGCTACACCCAAGAATGTGGCAATCGGGG
 ACAAGTGGTGTTCGCACTCAGGAGACCTCTCCATATGACATAGCAGTGGT**GAGCCTGGAAGAGGAGCTG**
 AATGGTGTCCACGCTGTCCCTGCTGGGCACTTCCATGAAGGATTGTGCGCCAGCAACTCGAGACA
 ACAACACGGGAGCCACTACCCACACTGAACTT**CAGCATCCCCATCACGGT**GCTCCAGCCAGCCCTGAA
 GCAGTACAGT**CAGACTGGT**GACCTGGTGGCTCCGAGAGCTGGACCACACCACTGAGCCGGT**CAGGGTC**
 GTGTGGCGGCTGCAGCGGCCCTGTCCGAAGTCCACGGAGCAAGCTC

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230296 representing NM_001272092
 Red=Cloning site Green=Tags(s)

MGRQWGPMRVAEQAGCVVSASRAGQPDAGSWSCSGVILSRNPGLVLCHGGIFTPLRTGSAALTQTGTA
 FLPGDSCSDDLRLHVQWGPTAASPAGRADQELPGLCTPQCASLGLPEGAPSRARARPLQPPRPAQLLLLL
 SCPAFRSHFARLFGADAVDQWHFVSSAPDDAVSEEEEDQLRALGWFALLRVQRGAAAEEERRGPVTVAP
 LGAVVKGAPLLACGSPFGAFCPDIFLNTLSRGVLSNAAGPLLLTDARCLPGTEGGGVFAARPAGALVALV
 AAPLCWKAREWVGLTLLCAAAPLLQVARWALARLHPGSASLSVLLPPPDVSTPRGLPLRDLGPPWAAA
 AVLVECGTVWGSVVPAPRLVVT**CRHVAPRE**AARV**L**VHSATPKNVAIWGQVVFATQETSPYDIAVVSLEEE
 L**NGVTPVPAGHF**HEGIVASNTRDNNTGATYPHLNFSIPITVLQPALKQYSQ**TDGLGGL**REL**DHTTE**PVRV
 VWRLQRPLSEVPRSKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

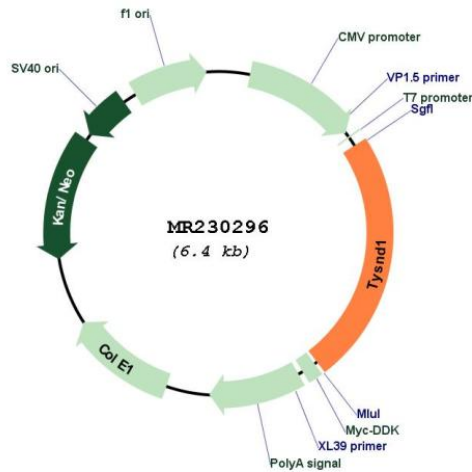
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001272092

ORF Size: 1518 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_001272092.1](#), [NP_001259021.1](#)

RefSeq Size: 2100 bp

RefSeq ORF: 1521 bp

Locus ID: 71767

UniProt ID: [Q9DBA6](#)

Cytogenetics: 10 B4

MW: 53.6 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]