

Product datasheet for RC207043

TYSND1 (NM_001040273) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TYSND1 (NM_001040273) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TYSND1
Synonyms: NET41
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207043 representing NM_001040273
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGAAGGCAGTGGGGTCTGCCATGAGGGCGGCCGAGCAGGCGGGCTGCATGGTGAAGCGCTCCCGG
 CCGGACAGCCGAGGCGGGCCCGTGGAGCTGCAGCGGGTAATCCTGAGCCGTAGCCCGGGCTGGTGT
 TTGCCACGGGGCATCTTCGTCCTTCTGCGAGCTGGCAGCGAAGTCTGACCGCGCCGGCGCGTC
 TTCTGCCTGGCAGAGTTCAGGGACGACTGCGCTGCAGTGCAGTGGCCCCAACGGCCGGGGT
 CCGGGGGCGCGGAGCGGGCCGCCAGGGCTGTGCACGCCCCAGTGCAGCCTCGAGCCCGGCC
 ACCTGCCCGTCCCGCGGGCTCCCTGCAGCCCCGGTTCCTGCTGAGCTGCTGCTGCTGAGCTGC
 CCGGCTTCTGGGCCACTTCGCGCGCTTTCGGGGACGAGGACGCGGAACAGTGGCGCTTCTCGAGCG
 CGGCGCGGATGACGAAGTGTGGAGGACGAGGAGGCGGATCAACTGAGAGCGCTGGGCTGGTTGCGCT
 GCTGGGCGTGGGCTAGGCCAGGAGGAGTGGAGGAGGAGCGCGGGCTAGCCATGGCGGTGTGCGCTCTC
 GGGGCGTGCCCAAGGGCGCGCATTGCTGGTCTGCGGCTCCCTTTGCGCGCTTCTGCCCCGACATCT
 TTCTCAACACGCTGAGCTGCGGGTGTGAGCAACGTGGCGGCCACTGCTGCTTACCGACGACGCTG
 CCTGCCCGGACCGAGGGCGCGGCTGTTCACCGCGCGGCCCGGGGGCGTGGTGGCGTGGTGGTG
 GCGCCGCTGTGTTGAAGGCCGGAATGGTGGGCTTACGCTGCTCTGCGCCGCCCCCTTTTCC
 CGCCCGCGGACGCGCTTACCGCTGCCGCACAGCACCGCTGCCCTGGCCGCTTCTGCGCCGAGA
 GGTGGGCGTCCCGTGGGCTGCGCCCTCCGAGACTCCGGGCCCTGTGGGACGCCGCGGAGTGTGGTG
 GAGTGGCGCACCGTATGGGCTCCGGAGTGGTGTGGCACCCGCTTGTAGTGACCTGTGCGCACGTGT
 CCCCTCGGAAGCAGCCAGGCTCCTGGTGGCTCCACCACCCCAAGCATAATCACCAGCAACACCCGGG
 ACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC207043 representing NM_001040273
Red=Cloning site Green=Tags(s)

MRRQWGSAMRAAEQAGCMVSASRAGQPEAGPWSCSGVILSRSPGLVLCHGGIFVPFLRAGSEVLTAAGAV
 FLPGDSCRDDLRLHVQWAPTAAGPGGGAERGRPGLCTPQCASLEPGPPAPSRGRPLQPRLPAELLLLLSC
 PAFWAHFARLFGDEAAEQWRFSSAARDDEVSDEEADQLRALGWFAALLGVRLGQEEVEEERGLAMAVSPL
 GAVPKGAPLLVCGSPFGAFCPDIFLNTLSCGVL SNVAGPLLLTDARCLPGTEGGGVFTARPAGALVALVV
 APLCWKAGEWVGFLLCAAAPLFRAARDALHRLPHSTAALAALLPPEVGPWGLPLRDSGPLWAAAVALV
 ECGTVWGSVAVAPRLVVTCTRHVSPREAAARVLRSTTPKHNHQHPGQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001040273

ORF Size: 1194 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_001040273.3](#)

RefSeq Size: 3485 bp

RefSeq ORF: 1197 bp

Locus ID: 219743

UniProt ID: [Q2T9J0](#)

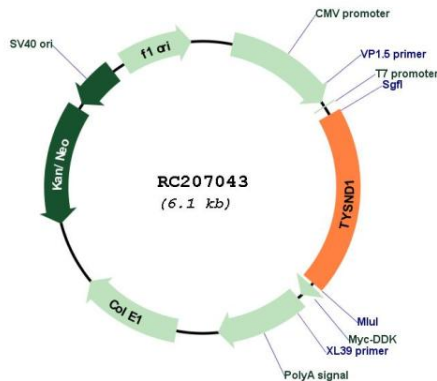
Cytogenetics: 10q22.1

Protein Families: Druggable Genome

MW: 41.4 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 RC207043