

Product datasheet for **RG211108**

TYSND1 (NM_173555) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TYSND1 (NM_173555) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TYSND1
Synonyms:	NET41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211108 representing NM_173555
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAAGGCAGTGGGGTCTGCCATGAGGGCGGCCGAGCAGCGGGCTGCATGGT**GAGCGCTCCCGGG**
 CCGGACAGCCCGAGGCGGCCCGTGGAGCTGCAGCGGGTAATCCTGAGCCGTAGCCCGGGCTGGTGT
 TTGCCACGGGGCATCTTCGTCCTTCTGCGAGCTGGCAGCGAAGTCCTGACC**CGGCCGGCGCGCTC**
 TTCCTGCCTGGCGACAGTTGCAGGGACGACCTGCGCTGCACGTGCAGTGGGCCCAACGGCCGGGGT
 CCGGGGGCGCGGAGCGGGCCGCCAGGGCTGTGCACGCCAGTGC**CGGAGCTCGAGCCCGGCC**
 ACCTGCCCGTCCCGGGCGTCCCTGCAGCCCGGCTTCTGCTGAGCTGCTGCTGCTGAGCTGC
 CCGGCTTCTGGGCCACTTCGCGCCTTTCGGGACGAGGCAGCGAACAGTGGCGTTC**CGAGCG**
 CGGCGCGGATGACGAAGTGTGGAGGACGAGGAGCGGATCACTGAGAGCGTGGGCTGGTTGCGCT
 GCTGGCGTGC**GGCTAGGCCAGGAGGAGTGGAGGAGCGCGGCCAGCCATGGCGGTGTCGCCTCTC**
 GGGCCGTGCCAAGGGTGC**CCATTGCTGGTCTGCGGCTCCCTTTTCGGCGCTTCTGCCCGACATCT**
 TTCTCAACACGCTGAGCTGCGGGTGT**CAGCAACGTGGCCGGCCACTGCTGCTTACCGACGCACGCTG**
 CCTGCCCGCACCGAGGGCGCGCGTGTTCACCGCGCGCCCGCGGGGGCGTGGTGGCGCTGGTGGT
 GCGCCGCTCTGTTGGAAGCCGGCGAATGGGTGGGCTTACGCTGCTCTGCGCGCGCCCGCCCTTTTC
 GCGCCCGCGGACGCGCTTACCGCTGCCGCACAGCACCGCTGCCCTGGCCCGCTTCTGCCCGCAGA
 GGTGGCGTCCGTGGGCTGCCCCCGGAGACTCCGGGCCCTGTGGGAGCGCGGCAGTGTGGT
 GAGTGGCGCACCGTATGGGCTCCGGAGTGGCTGTGGCACCCCGCTTGTAGTACCTGTCCGCACGT
 CCCCTCGGAAGCAGCCAGGGTCTGGTGCCTCCACCACCCCAAGAGTGTGGCCATCTGGGGCGTGT
 GGATTTGCCACTCAGGAGACATGCCCTATGACATAGCAGTGGTGGAGCTGGAGGAGGACCTGGATGAT
 GTCCTATCCCTGTGCCGCTGAGCACTTCCATGAAGGCGAGGCTGTGAGTGTGGTGGGCTTTGGCGTCT
 TTGGCCAGTCTTGGGGCCCTCGGTGACCTCAGGCATCCTTTGGCTGTGGTGCAGGTGAATGGCACGCC
 CGTAATGCTGCAGACCAGTGTGCTGTGCACAGCGCTCCAGTGGGGACCCCTTCTCCAACCACTCA
 GGAAACCTCCTTGGCATAATCACCAGCAACACCCGGGACAATAACGGGGGCCACCTACCCCACTGA
 ACTTCAGATTCCCATCACGGTCTCCAGCCGGCCCTGCAGCAGTACAGCCAGACCCAAGACCTAGGTGG
 CCTCCGTGAGCTGGACCGCGCTGCTGAGCCAGTCAAGGTGGTGTGGCGTTCAGCGGCCCTGGCAGAG
 GCCCGCGGAGCAAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211108 representing NM_173555
 Red=Cloning site Green=Tags(s)

MRRQWSAMRAEQAGCMVSASRAGQPEAGPWSCSGVILSRSPGLVLCGGIFVPFLRAGSEVLTAAAV
 FLPGDSCRDDLRLHVQWAPTAAGPGGAERGRPLCTPQCASLEPGPPAPSRGRPLQPRLPAELLLLLSC
 PAFWAHFARLFGDEAAEQWRFSSAARDDEVEDEEADQLRALGWFALLGVRLGQEEVEEERGPAMAVSPL
 GAVPKGAPLLVCGSPFGAFCPDIFLNTLSCGVLSNVAGPLLLTDARCLPGTEGGVFTARPAGALVALVV
 APLCWKAGEWVGFLLCAAAPLFRARDALHRLPHSTAALAALLPPEVGPVWGLPLRDSGPLWAAAAVLV
 ECGTVWGSVAVAPRLVVTCTRHVSPREARVLRSTTPKSVAIWGRVVFATQETCPYDIAVVSLEEDLDD
 VPIPVPAEHFHEGEAVSVVGFVFGQSCGPSVTSVILSAVVQVNGTPVMLQTTCAVHSGSSGGPLFSNHS
 GNLLGIITSNTRDNNTGATYPHLNFSIPITVLQPALQQYSQTQDLGGLRELDRAAEPVRVWRLQRPLAE
 APRSKL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

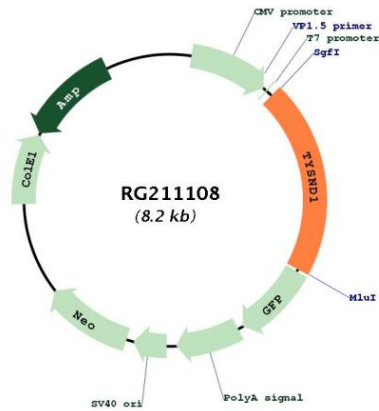


ACCN:	NM_173555
ORF Size:	1698 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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:	<ol style="list-style-type: none"> 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_173555.4
RefSeq Size:	3802 bp
RefSeq ORF:	1701 bp
Locus ID:	219743
UniProt ID:	Q2T9J0
Cytogenetics:	10q22.1

Protein Families: Druggable Genome

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 RG211108