

## Product datasheet for **RG207043**

### **TYSND1 (NM\_001040273) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TYSND1 (NM\_001040273) 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)  
**ORF Nucleotide Sequence:** >RG207043 representing NM\_001040273  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGAAGGCAGTGGGGTCTGCCATGAGGGCGGCCGAGCAGGCGGGCTGCATGGTGAAGCGCTCCCGG  
 CCGGACAGCCGAGGGCGGCCCGTGGAGCTGCAGCGGGTAATCCTGAGCCGTAGCCCGGGCTGGTGT  
 TTGCCACGGGGCATCTTCGTCCTTCTCGAGCTGGCAGCGAAGTCTGACCGCGCCGGCGCGCTC  
 TTCTGCCTGGCAGAGTTGCAGGGACGACCTGCGCTGCAGTGCAGTGGGCCCAACGGCCGGGGT  
 CCGGGGGCGCGGAGCGGGCGCCAGGGCTGTGCACGCCCAGTGCAGCCTCGAGCCCGGCC  
 ACCTGCCCGTCCCGCGGGCGTCCCTGCAGCCCGGCTTCTGCTGAGCTGCTGCTGCTGAGCTGC  
 CCGGCTTCTGGGCCACTTCGCGCGCTTTCGGGGACGAGGACGCGGAACAGTGGCGCTTCTCGAGCG  
 CGGCGCGGATGACGAAGTGTGGAGGACGAGGAGGCGGATCAACTGAGAGCGCTGGGCTGGTTGCGCT  
 GCTGGGCGTGGGCTAGGCCAGGAGGAGTGGAGGAGGAGCGCGGGCTAGCCATGGCGGTGTGCGCTCTC  
 GGGCGGTGCCAAGGGCGCGCCATTGCTGGTCTGCGGCTCCCTTTGCGCGCTTCTGCCCCGACATCT  
 TTCTCAACACGCTGAGCTGCGGGTGTGACGAACGTGGCGGCCACTGCTGCTTACCGACGACGCTG  
 CCTGCCCGGACCGAGGGCGCGCGTGTTCACCGCGCGGCCCGGGGGCGTGGTGGCGTGGTGGTG  
 GCGCCGCTGTGTTGAAGCGCGGAATGGTGGGCTTACGCTGCTCTGCGCCGCGCCCTTTTCC  
 GCGCCCGCGACGCGCTTACCGCTGCCGCACAGCACCGCTGCCCTGGCCGCTTCTGCGCCGAGA  
 GGTGGGCGTCCCGTGGGCTGCGCCCTCCGAGACTCCGGGCCCTGTGGGACGCCGCGCAGTGTGGTG  
 GAGTGGCGCACCGTATGGGGCTCCGGAGTGGTGTGGCACCCGCTTGTAGTGACCTGTGCGCACGTGT  
 CCCCTCGGAAGCAGCCAGGTCCTGGTGGCTCCACCACCCCAAGCATAATCACCAGCAACACCCGGG  
 ACAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207043 representing NM\_001040273  
 Red=Cloning site Green=Tags(s)

MRRQWGSAMRAAEQAGCMVSASRAGQPEAGPWSCSGVILSRSPGLVLCGGIFVPPFLRAGSEVLTAAGAV  
 FLPGDSCRDDLRLHVQWAPTAAGPGGGAERGRGLCTPQCASLEPGPPAPSRGRPLQPRLPAELLLLLSC  
 PAFWAHFARLFGDEAAEQWRFSSAARDDEVSEDEEADQLRALGWFALLGVRLGQEEVEEERGLAMAVSPL  
 GAVPKGAPLLVCGSPFGAFCPDIFLNTLSCGVL SNVAGPLLLTDARCLPGTEGGGVFTARPAGALVALVV  
 APLCWKAGEWVGFLLCAAAPLFRAARDALHRLPHSTAALAALLPPEVGVPWGLPLRDSGPLWAAAVALV  
 ECGTVWGSVAVAPRLVYVTCRHVSPREAAARVLRSTTPKHNHQHPGQ

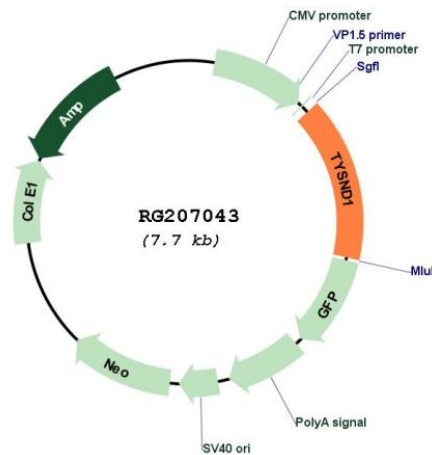
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001040273

<b>ORF Size:</b>	1194 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_001040273.1</a> , <a href="#">NP_001035363.1</a>
<b>RefSeq Size:</b>	3485 bp
<b>RefSeq ORF:</b>	1197 bp
<b>Locus ID:</b>	219743
<b>UniProt ID:</b>	<a href="#">Q2T9I0</a>
<b>Cytogenetics:</b>	10q22.1
<b>Protein Families:</b>	Druggable Genome
<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]