

## Product datasheet for **RG200032**

### TMX2 (NM\_015959) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMX2 (NM_015959) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMX2
Synonyms:	CGI-31; NEDMCMS; PDIA12; PIG26; TXNDC14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200032 representing NM_015959 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGTCTTGGCACCTCTAATTGCTCTCGTGTATTCGGTGCCGCGACTTTCACGATGGCTCGCCCAAC  
CTTACTACCTTCTGTCGGCCCTGCTCTCTGCTGCCTTCTACTCGTGAGGAACTGCCGCCGCTCTGCCA  
CGGTCTGCCACCCAACGCGAAGACGGTAACCCGTGTGACTTTGACTGGAGAGAAGTGGAGATCCTGATG  
TTTCTCAGTGCCATTGTGATGATGAAGAACCAGATCCATCACTGTGGAGCAACATATAGGCAACATTT  
TCATGTTTAGTAAAGTGGCCAACAATCTTTTCTCCGCTTGGATATTCGCATGGGCCTACTTTACAT  
CACACTCTGCATAGTGTTCCTGATGACGTGCAAACCCCTATATATGGGCCCTGAGTATATCAAGTAC  
TTCAATGATAAAACCATTGATGAGGAAGTGAACGGGACAAGAGGGTCACTTGGATTGTGGAGTTCTTTG  
CCAATTGGTCTAATGACTGCCAATCATTGGCCCTATCTATGCTGACCTCTCCCTAAATACAAGTGTAC  
AGGGCTAAATTTGGGAAGGTGGATGTTGGACGCTATACTGATGTTAGTACGCGGTACAAAGTGAGCACA  
TCACCCCTACCAAGCAACTCCCTACCTGATCCTGTTCCAAGGTGGCAAGGAGGCAATGCCGGGCCAC  
AGATTGACAAGAAAGGACGGGCTGTCTCATGGACCTTCTCTGAGGAGAATGTGATCCGAGAATTTAACTT  
AAATGAGCTATACCAGCGGGCCAAGAACTATCAAAGGCTGGAGACAATATCCCTGAGGAGCAGCCTGTG  
GCTTCAACCCCAACACAGTGTGATGGGAAACAAGAAGGATAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200032 representing NM\_015959  
 Red=Cloning site Green=Tags(s)

MAVLAPLIALVYSPRLSRWLAQPYYLLSALLSAFFLLVRKLPPLCHGLPTQREDGNPCDFDWREVEILM  
 FLSAIVMMKNRRSITVEQHIGNIFMFSKVANTILFFRLDIRMGLLYITLCIVFLMTCKPPLYMGPEYIKY  
 FNDKTIIDEELERDKRVTWIVEFFANWSNDCQSFAPYADLSLKYNTGLNFGKVDVGRYTDVSTRYKYST  
 SPLTKQLPTLILFQGGKEAMRRPQIDKKGRAVSWTFSEENVIREFNLNELYQRAKKLSKAGDNIPEEQPV  
 ASTPTTVSDGENKKDK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015959

**ORF Size:** 888 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\\_015959.4](#)

**RefSeq Size:** 1669 bp

**RefSeq ORF:** 891 bp

**Locus ID:** 51075

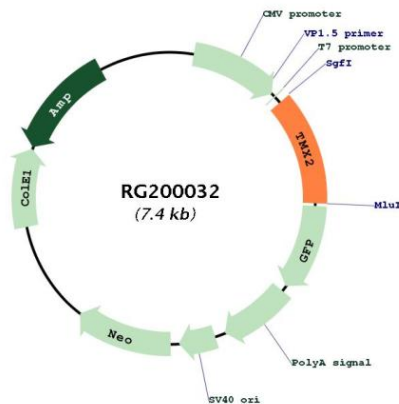
**UniProt ID:** [Q9Y320](#)

**Cytogenetics:** 11q12.1

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal ER-signal sequence, a catalytically active thioredoxin domain, one transmembrane domain and a C-terminal ER-retention sequence. This protein is enriched on the mitochondria-associated-membrane of the ER via palmitoylation of two of its cytosolically exposed cysteines. [provided by RefSeq, Jan 2017]

### Product images:



Circular map for RG200032