

Product datasheet for **SC324859**

TMX2 (NM_001144012) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMX2 (NM_001144012) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMX2
Synonyms:	CGI-31; NEDMCMS; PDIA12; PIG26; TXNDC14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324859 representing NM_001144012. Blue=Insert sequence Red=Cloning site Green=Tag(s)

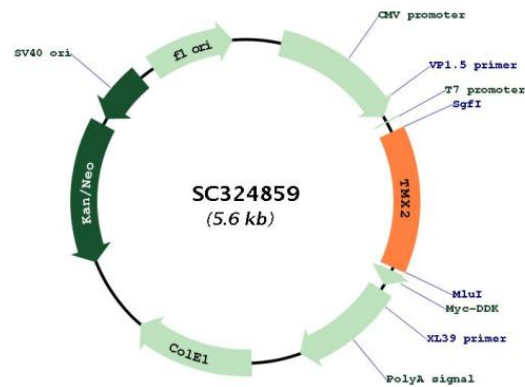
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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGTCTTGGCACCTCTAATTGCTCTCGTGTATTCGGTGCCGCGACTTTCACGATGGCTCGCCAA
CCTTACTACCTTCTGTGGCCCTGCTCTCTGCTGCCTTCTACTCGTGAGGAACTGCCGCCGCTCTGC
CACGGTCTGCCACCCAACGCGAAGACGGTAACCCGTGTGACTTTGACTGGAGAGAAGTGGAGATCCTG
ATGTTTCTCAGTGCCATTGTGATGATGAAGAACCAGATCCATGTTCTGATGACGTGCAAAACCCCC
CTATATATGGGCCCTGAGTATATCAAGTACTTCAATGATAAAAACCATTGATGAGGAACTAGAACGGGAC
AAGAGGGTCACTTGGATTGTGGAGTTCTTTGCCAATTGGTCTAATGACTGCCAATCATTTGCCCTATC
TATGCTGACCTCTCCCTTAAATACAACGTACAGGGCTAAATTTGGGAAGGTGGATGTTGGACGCTAT
ACTGATGTTAGTACGCGGTACAAAGTGAGCACATCACCCCTACCAAGCAACTCCCTACCCTGATCCTG
TTCCAAGGTGGCAAGGAGGCAATGCGGCGGCCACAGATTGACAAGAAAGGACGGGCTGTCTCATGGACC
TTCTCTGAGGAGAATGTGATCCGAGAAATTAACCTAAATGAGCTATACCAGCGGGCCAAGAACTATCA
AAGGCTGGAGACAATATCCCTGAGGAGCAGCCTGTGGCTTCAACCCACCACAGTGTGATGAGGAA
ACAAGAAGGATAAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-MluI



[View online »](#)

Plasmid Map:



ACCN: NM_001144012

Insert Size: 777 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001144012.2](#)

RefSeq Size: 1627 bp

RefSeq ORF:	777 bp
Locus ID:	51075
UniProt ID:	Q9Y320
Cytogenetics:	11q12.1
Protein Families:	Druggable Genome, Transmembrane
MW:	29.6 kDa

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]
Transcript Variant: This variant (2) lacks an alternate in-frame exon and uses an alternate in-frame splice junction compared to variant 5. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 4.