

Product datasheet for **SC324454**

TMX2 (NM_015959) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMX2 (NM_015959) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMX2
Synonyms:	CGI-31; NEDMCMS; PDIA12; PIG26; TXNDC14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_015959.1
 GCCGAAAAGATGGCGGTCTTGGCACCTCTAATTGCTCTCGTGTATTCCGGTGCCGCGACTT
 TCACGATGGCTCGCCCAACCTTACTACCTTCTGTGCGCCCTGCTCTCTGCTGCCTTCTTA
 CTCGTGAGGAACTGCCGCGCTCTGCCACGGTCTGCCACCCAACGCGAAGACGGTAAC
 CCGTGTGACTTTGACTGGAGAGAAGTGGAGATCCTGATGTTTCTCAGTGCCATTGTGATG
 ATGAAGAACCAGATCCATCACTGTGGAGCAACATATAGGCAACATTTTTCATGTTTAGT
 AAAGTGGCCAACAATCTTTTCTTCCGCTTGGATATTGCGATGGCCCTACTTTACATC
 AACTCTGCATAGTGTCTGATGACGTGCAAACCCCTATATATGGGCCCTGAGTAT
 ATCAAGTACTTCAATGATAAAACCATTGATGAGGAACTAGAACGGGACAAGAGGGTCACT
 TGGATTGTGGAGTTCTTTGCCAATTGGTCTAATGACTGCCAATCATTTGCCCTATCTAT
 GCTGACCTCTCCCTAAATACAAGTGTACAGGGCTAAATTTGGGAAGGTGGATGTTGGA
 CGCTATACTGATGTTAGTACGCGGTACAAAGTGAAGCACATCACCCCTACCAAGCAACTC
 CCTACCCTGATCTGTTCCAAGGTGGCAAGGAGCAATGCGGCGGCCACAGATTGACAAG
 AAAGGACGGGCTGTCTCATGGACCTTCTCTGAGGAGAATGTGATCCGAGAATTTAACTTA
 AATGAGCTATACCAGCGGCCAAGAACTATCAAAGGCTGGAGACAATATCCCTGAGGAG
 CAGCCTGTGGCTTCAACCCACACAGTGTGAGATGGGAAAACAAGAAGGATAAATAA
 GATCCTCACTTTGGCAGTGCTTCTCTCCTGTCAATTCCAGGCTCTTTCCATAACCACAA
 GCCTGAGGCTGCAGCCTTTTATTTATGTTTTCCCTTTGGCTGTGACTGGGTGGGCGAGCA
 TGCAGCTTCTGATTTTAAAGAGGCATCTAGGGAATTGTCAGGCACCCTACAGGAAGGCT
 GCCATGCTGTGGCCAACCTGTTTCACTGGAGCAAGAAAGAGATCTCATAGGACGGAGGGGG
 AAATGGTTTCCCTCCAAGCTTGGGTTAGTGTGTTAACTGCTTATCAGCTATTCAGACATC
 TCCATGGTTTCTCATGAACTCTGTGGTTTCATCATTCTTCTAGTTGACCTGCACAG
 CTTGGTTAGACCTAGATTTAACCTAAGTAAGATGCTGGGGTATAGAACGCTAAGAATT
 TTCCCCAAGGACTCTTCTTCTTAAAGCCCTTCTGGCTTCGTTTATGGTCTTCATTA
 AGTATAAGCCTAACTTTGTCGCTAGTCCTAAGGAGAAACCTTTAACACAAAGTTTTTAT
 CATTGAAGACAATATTGAACAACCCCTATTTTGTGGGATTGAGAAGGGGTGAATAGAG
 GCTTGAGACTTCTTCTTGTGGTAGGACTTGGAGGAGAAATCCCTGGACTTTCCTAA
 CCCTCTGACATACTCCACACCCAGTTGATGGCTTCCGTAATAAAAAGATTGGGATT
 CCTTTTGAIAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_015959
- 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:	<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_015959.1 , NP_057043.1
RefSeq Size:	1669 bp
RefSeq ORF:	891 bp
Locus ID:	51075
UniProt ID:	Q9Y320
Cytogenetics:	11q12.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) uses an alternate in-frame splice junction compared to variant 5. The resulting isoform (1) has the same N- and C-termini but is shorter compared to isoform 4.</p>