

## Product datasheet for **SC107853**

### 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:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107853 sequence for NM_015959 edited (data generated by NextGen Sequencing)

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ATGGCGGTCTTGGCACCTCTAATTGCTCTCGTGTATTCGGTGCCGCGACTTTCACGATGG
CTCGCCCAACCTTACTACCTTCTGTCTCGGCCCTGCTCTCTGCTGCCTTCTACTCGTGAGG
AAACTGCCGCGCTCTGCCACGGTCTGCCACCCAACGCGAAGACGGTAACCCGTGTGAC
TTTGACTGGAGAGAAGTGGAGATCCTGATGTTTCTCAGTGCCATTGTGATGATGAAGAAC
CGCAGATCCATCACTGTGGAGCAACATATAGGCAACATTTTCATGTTTAGTAAAGTGGCC
AACACAATTCTTTTCTCCGCTTGGATATTCGCATGGGCCTACTTTACATCACACTCTGC
ATAGTGTCTCTGATGACGTGCAAACCCCTATATATGGGCCCTGAGTATATCAAGTAC
TTCAATGATAAAACCATTGATGAGGAAGTAGAACGGGACAAGAGGGTCACTTGGATTGTG
GAGTTCTTTGCCAATTGGTCTAATGACTGCCAATCATTTGCCCTATCTATGCTGACCTC
TCCCTTAAATACAACGTACAGGCTAAATTTTGGGAAGGTGGATGTTGGACGCTATACT
GATGTTAGTACGCGGTACAAAGTGAGCACATCACCCCTCACCAAGCAACTCCCTACCCCTG
ATCCTGTTCCAAGGTGGCAAGGAGGCAATGCGGCGGCCACAGATTGACAAGAAAGGACGG
GCTGTCTCATGGACCTTCTCTGAGGAGAATGTGATCCGAGAAATTAACCTAAATGAGCTA
TACCAGCGGGCCAAGAACTATCAAAGGCTGGAGACAATATCCCTGAGGAGCAGCCTGTG
GCTTCAACCCCAACACAGTGTCAGATGGGGAAAACAAGAAGGATAAATAA
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Clone variation with respect to NM\_015959.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_015959 unedited</p> <pre> ACATTTTGTATCACGACTCACTATANNNGCGGCCGCGCAATTCGGCACGAGGGTTACGGC CGAAAAGAGGGCGGTCTTGGCACCTCTAATTGCTCTCGTGATTTCGGTGCCGCGACTTTCA CGATGGCTCGCCCAACCTTACTACCTTCTGTGGCCCTGCTCTCTGCTGCCTTCTACTC GTGAGGAAACTGCCGCCGCTCTGCCACGGTCTGCCACCCAACCGGAAGACGGTAACCCG TGTGACTTTGACTGGAGAGAAGTGGAGATCCTGATGTTTCTCAGTGCCATTGTGATGATG AAGAACCAGCAGATCCATCACTGTGGAGCAACATATAGGCAACATTTTCATGTTTAGTAA GTGGCCAACACAATTTCTTTCTTCGCTTGGATATTCGCATGGGCCTACTTTACATCACA CTCTGCATAGTGTTCCTGATGACGTGCAAACCCCCCTATATATGGGCCCTGAGTATATC AAGTACTTCAATGATAAAAACATTGATGAGGAACTAGAACGGGACAAGCGGGTCACTTGG ATTGTGGAGTTCTTTGCCAATTGGTCTAATGACTGCCAATCATTGGCCCTATCTATGCT GACCTCTCCCTTAAATACAACGTACAGGGCTAAATTTTGGGAAGGTGGATGTTGGACGC TATACTGATGTTAGTACGCGGTACANAGTGAACACATCACCCCTCACCAAGCAACTCCC TACCCTGATCCTGTTCCAAGTTGGCANGGGAGCAATTGCGCCGCCACAGATTGACAAGAA AGACGGGTGTCTCATGGACCTTCTCTGAGGAGATGTGATCCGAGAATTTAACTTAATGA GCTATACCAGCGCCAAGNAACTATAAAGCCTGAGACATATCCCTGAGAGCACCTGTGGC TCACCCACCACAGGCCGTAGGAAACCAGAGATAATAGATCTACTTTGCAAGCT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_015959 unedited</p> <pre> TAAAAGGAAATCCNCAATNCCTNTNNTNTNNTNATTTNNNNACGGAAAGCCATCAACTGGG TGTGGGGAGTATGTCAGAGGGTTAGTGAAAGTCCAGGGGATTTCTCTCCAAGTTCCTA CCACACAAAGGAAAGTCTCAAGCCTCTATTCACCCCTTCTTAATCCCCACAAAATAGGG GGGGGGGGGGGNNGGTTCAATANTTGGNCTTCAATGATAAAAAAAAAACCTTTTGTGGT TTAAAGGGGGTTTTTTTTCTCCTTAGGNACACCTTAAACCGCGCGAAACCCCAAAA AATTAGGCCAATTTTAAATGGAGGACCTTAACCAACCCCAAAAGCCTTAAAGAAANC AAGAATCCTTGGGGGAAAAATCTTAGCGTTTTTACCCCAAGCTTCTTACCTTATAGGGGT AAATCTAGGTCTAACAAACTGTGCAGGTACCTTAGAAGGGATGATGGAACCCCGAGT TTCATGGAGAAACCATGGAATGTCTGAATAGCTGATAAGCAAGTAACACACTGACCCAG CTTGGAGGGAAACCCATTTCCCCTNCGTCTATGAGATCTTTTTCTTGTCCAGTGAAAC AGTTGGCCCCAGCATGGCAGGCCTTCTGTANGGTGCCTGACANTCCCCTAGATGCCTCT TTAAATNANAAAGCTGCATGCTGCCCCACCAGTCCCAGCCAAAAGGAAAACATAAATAA AAGGCTGCAGCCTCAGGCTTGNGTATTGAAAGACCCTGNNATTGACAGGAAAGAACCC TGCCAAGTGAAGATCTTTTTATCCTTCTTGTTCCTTCCCAATCTGACACTGGGGGGGGTTA AACCCAAGCCTGTCTCAGGTAATTGCTCCACCTTAATAATTTTTGGCCCCGGTTACC CTATAAGTAAATCTGGAACAATCTCCTAAAAAGGCCTAAAAACCCCTTTTGGAAATTG GGCCCTTTTCTT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_015959
<b>Insert Size:</b>	1700 bp
<b>OTI Disclaimer:</b>	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).
<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_015959.1</a> , <a href="#">NP_057043.1</a>
<b>RefSeq Size:</b>	1669 bp
<b>RefSeq ORF:</b>	891 bp
<b>Locus ID:</b>	51075
<b>UniProt ID:</b>	<a href="#">Q9Y320</a>
<b>Cytogenetics:</b>	11q12.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	<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>