

Product datasheet for **SC109735**

TXNDC (TMX1) (NM_030755) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNDC (TMX1) (NM_030755) Human Untagged Clone
Tag:	Tag Free
Symbol:	TXNDC
Synonyms:	PDIA11; TMX; TXNDC; TXNDC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109735 sequence for NM_030755 edited (data generated by NextGen Sequencing) ATGGCGCCCTCCGGGAGTCTTGACGTTCCCTGGCAGTCTGGTGTCTTGGGGT GCTCCCTGGACGCACGGCGCGGAGCAACGTTTCGCGTCATCACGGACGAGAAGTGGAGA GAACTGCTGGAAGGAGACTGGATGATAGAATTTATGCCCGTGGTGCCTGCTTGCAA AATCTTCAACCGAATGGGAAAGTTTGTGAATGGGAGAAGATCTTGAGGTTAATATT GCGAAAGTAGATGTCACAGAGCAGCCAGGACTGAGTGGACGGTTATCATAACTGCTCTT CCTACTATTTATCATTGTAAGATGGTGAATTTAGGCGCTATCAGGGTCCAAGGACTAAG AAGGACTTCATAAACTTTATAAGTGATAAAGAGTGAAGAGTATTGAGCCGTTTCATCA TGGTTTGGTCCAGTTCTGTTCTGATGAGTAGTATGTCAGCACTTTTCAGCTATCTATG TGGATCAGGACGTGCCATAACTACTTTATTGAAGACCTTGGATTGCCAGTGTGGGGATCA TATACTGTTTTGCTTTAGCAACTCTGTTTTCCGGACTGTTATTAGGACTCTGTATGATA TTTGTGGCAGATTGCCTTTGTCCTTCAAAAAGGCGCAGACCACAGCCATACCCATACCCT TCAAAAAAATTATTATCAGAATCTGCACAACCTTTGAAAAAGTGGAGGAGGAACAAGAG GCGGATGAAGAAGATGTTTCAGAAGAAGAAGCTGAAAGTAAAGAAGGAACAAACAAGAC TTTCCACAGAATGCCATAAGACAACGCTCTCTGGGTCCATCATTGGCCACAGATAAATCC TAG Clone variation with respect to NM_030755.4 492 t=>g;648 g=>a



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_030755 unedited
 CCAGTCAGCAATTGTATACGACTCATATAGGCGGCCGCTGAATTCGCACGAGGCAGCCCCG
 CGAGGGCGGAAGTGGGAGCTGCGACCGCCTCCCTGTGAGGTGGGCAAGCGGCGAAATGG
 CGCCCTCCGGGAGTCTTGCACTTCCCCTGGCAGTCTGGTGTCTTGGTTGGGGTGCTC
 CCTGGACGCACGGGCGGCGGAGCAACGTTTCGCGTCATCACGGACGAGAAGTGGAGAGAAC
 TGCTGGAAGGAGACTGGATGATAGAATTTATGCCCGTGGTGCCTGCTTGTCAAAATC
 TTCAACCGGAATGGGAAAGTTTTGCTGAATGGGAGAAGATCTTGAGGTTAATATTGCGA
 AAGTAGATGTCACAGAGCAGCCAGGACTGAGTGGACGGTTATCATAACTGCTCTTCCTA
 CTATTTATCATTGTAAAGATGGTGAATTTAGGCGCTATCAGGGTCCAAGGACTAAGAAGG
 ACTTCATAAACTTTATAAGTGATAAAGAGTGGAAGAGTATTGAGCCCGTTTCATCATGGT
 TTGGTCCAGGTTCTGTTCTGATGAGTAGTATGTCAGCACTCTTTCAGCTATCTATGTGGA
 TCAGGACGTGCCATAACTACTTTATTGAAGACCTTGGATTGCCAGTGTGGGGATCATATA
 CTGTTTTTGCTTAGCAACTCTGTTTTCCGGACTGTTATTAGGACTCTGTATGATATTTG
 TGGCAGATTGCCTTTGCTCTTAAAAAGGCGCAGACCACGCCATACCCATACTCTTTAG
 AAACATTATTATCAGAATCTGCACACCTTTTGA AAAAAGTGGAGAGGAACAAGAGGCTGA
 TGAAGAAGATGTTTCACACGAGCAGCTGAAAGTAAAGAGGAACAACAAGACTTTCCCAA
 ATGCCATAGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_030755 unedited
 CCGCGGCCCACTAGAGTCGAGTT
 TTT
 TTTTAAATTTTTTTAAGGGCTCACAAGTCCCCCTCAAACCTTTTTAAGGGGCAATTTT
 TTAATTTTTAAAGGAAAGGGCTTAAAAAAAACCTTTTTTTTCCCAACCCGGAAATTTAA
 GGGGTTCCCCCCCCACCAAAACCCTAAAAAAAAGGGGCCCTTTCCAAAATTGCCTCCCCC
 AAAGGGGCAAGGGATTCAATTGGATTTAAAAATCCCCCTTTTTTTAAGGGGAAAACCTT
 TTTTTTACCTTTTTAAGGGGAAAAAACCCCCAAAAGGGCCCCCCCCCGCCTTTTCC
 CCGGAAACCCCCCCCCATTTTCCCCCCCCGAAAAAACCCCGGGTAATTTGAAGTTTGT
 CTTTTAAAAAATAAAAAATGTTTTTTTTTAAAAATCAACCTTTCCACCTGGAAAAA
 CAATTA AAAACCTTTTGTTTTGGAGGCCAAAAACCTTTAAAACATTTACCAAAAAAAG
 CTTTTTCTGAAAAAAAAGCAAACCTTTTATTTAACCTTTTTGAATTTTCAAAAATGGAA
 AACACCAAGGGTTTTTCCCTTAAACAAAAATCTCGAATGGCTCCCTTCCCCCCCCAAA
 AGAAAAAACAAAAAACCACTTCTCAGTTGAAGCTCCCCAGAAAGTTGAAAATTTCA
 GAAAAAGGGCCCCAAATTTAAATTACCCACAAATTGTCCAATTTGGAGGGAGTCTCC
 ACAAAACCCCTANTTTGAAAACACAAAAAACCTGGCTACTTAAAACATAAAAAATGT
 TCCCAAAAATTTCTCTCCCTTTGAAAATAAAAAGGCCCTTTTGGTTAGAAAACACCG
 GAAAATC

Restriction Sites:

NotI-NotI

ACCN:

NM_030755

Insert Size:

2550 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).

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_030755.3 , NP_110382.2
RefSeq Size:	2473 bp
RefSeq ORF:	843 bp
Locus ID:	81542
UniProt ID:	Q9H3N1
Cytogenetics:	14q22.1
Domains:	thioredoxin
Protein Families:	Druggable Genome, Transcription Factors, 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, and one transmembrane domain. Unlike most members of this gene family, it lacks a C-terminal ER-retention sequence. The mature membrane-bound protein can both oxidize and reduce disulfide bonds and acts selectively on membrane-associated polypeptides. [provided by RefSeq, Jan 2017]</p>