

Product datasheet for **RG206187**

TXNDC (TMX1) (NM_030755) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNDC (TMX1) (NM_030755) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TXNDC
Synonyms:	PDIA11; TMX; TXNDC; TXNDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206187 representing NM_030755 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCCTCCGGGAGTCTTGCACTTCCCCTGGCAGTCATGGTGCCGTTGCTTTGGGGTCTCCCTGGA
CGCACGGGCGCGGAGCAACGTTTCGCGTCATCACGGACGAGAAGTGGAGAGAAGTCTGGAAGGAGACTG
GATGATAGAATTTATGCCCGTGGTGCCTGCTTGTCAAATCTTCAACCGAATGGGAAAGTTTTGCT
GAATGGGAGAAGATCTTGAGGTTAATATTGCGAAAGTAGATGTCACAGAGCAGCCAGGACTGAGTGGAC
GGTTTATCATAAATGCTTCTCTACTATTTATCATTGTAAGATGGTGAATTTAGCGCTATCAGGGTCC
AAGGACTAAGAAGGACTTCATAAAGTATAAGTGATAAAGAGTGAAGAGTATTGAGCCGTTTTCATCA
TGGTTTGGTCCAGGTTCTGTTCTGATGAGTAGTATGTCAGCACTTTTCAGCTATCTATGTGGATCAGGA
CGTGCCATAACTACTTTATTGAAGACCTTGGATTGCCAGTGTGGGGATCATATACTGTTTTTGTCTTAGC
AACTCTGTTTTCCGGACTGTTATTAGGACTCTGTATGATATTTGTGGCAGATTGCCTTTGTCTTCAAAA
AGGCGCAGACCACAGCCATACCCATACCCTTCAAAAAATTATTATCAGAATCTGCACAACCTTTGAAAA
AAGTGGAGGAGGAACAAGAGGCGGATGAAGAAGATGTTTCAGAAGAAGAAGCTGAAAGTAAAGAAGGAAC
AAACAAAGACTTCCACAGAATGCCATAAGACAACGCTCTCTGGTCCATCATTGGCCACAGATAAATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206187 representing NM_030755
 Red=Cloning site Green=Tags(s)

MAPSGSLAVPLAYMVPLLWGAPWTHGRRSNVRVITDENWRELLEGDWMIEFYAPWCPACQNLQPEWESFA
 EWGEDLEVNIKVDVTEQPGLSGRFIINALPTIYHCKDGEFRRYQGPRTKKDFINFISDKEWKSIEPVSS
 WFGPGSVLMSSMSALFQLSMWIRTCHNYFIEDLGLPVWGSYTVFALATLFSGLLLGLCMIFVADCLCPSK
 RRRPQYPYPYPSKLLSESAQPLKKVEEEQEAEDEEDVSEEEAESKEGTNKDFPQNAIRQSLGPSLATDKS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030755

ORF Size: 840 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_030755.3](#), [NP_110382.2](#)

RefSeq Size: 2473 bp

RefSeq ORF: 843 bp

Locus ID: 81542

UniProt ID: [Q9H3N1](#)

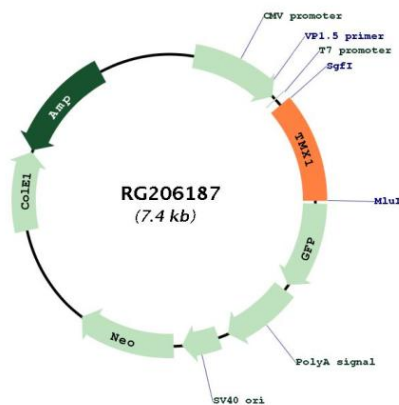
Cytogenetics: 14q22.1

Domains: thioered

Protein Families: Druggable Genome, Transcription Factors, 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, 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]

Product images:



Circular map for RG206187