

## Product datasheet for **SC127656**

### TXNDC13 (TMX4) (NM\_021156) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TXNDC13 (TMX4) (NM_021156) Human Untagged Clone
Tag:	Tag Free
Symbol:	TXNDC13
Synonyms:	DJ971N18.2; PDIA14; TXNDC13
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 SC127656 sequence for NM_021156 edited (data generated by NextGen Sequencing)

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ATGGCGGGTGGGCGCTGCGGCCCGAGCTAACGGCGCTCTGGCCGCTGGATCGCGGCT
GTGGCGGCGACGGCAGGCCCGAGGAGGCGCGCTGCCGCGGAGCAGAGCCGGTCCAG
CCCATGACCGCCTCCAACCTGGACGCTGGTATGGAGGGCAGTGGATGCTGAAATTTTAC
GCCCCATGGTGTCCATCTGCCAGCAGACTGATTCAGAATGGGAGGCTTTTGAAAGAAT
GGTGAATACTTCAGATCAGTGTGGGAAGGTAGATGTCATTCAAGAACCAGTTTGAGT
GGCCGCTCTTTTGTCAACTCTCCAGCATTTTTTCATGCAAAGGATGGGATATTCCGC
CGTTATCGTGGCCAGGAATCTTGAAGACCTGCAGAATTATATCTTAGAGAAGAAATGG
CAATCAGTCGAGCCTCTGACTGGCTGGAATCCCCGGCTTCTCTAACGATGTCTGGAATG
GCTGGTCTTTTTAGCATCTCTGGCAAGATATGGCATCTTCACAATTTTACAGTGACT
CTTGGAATTCCTGCTTGGTGTCTTATGTNTTTTTCGTCATAGCCACCTTGGTTTTTGGC
CTTTTTATGGGTCTGGTCTTGGTGGTAATATCAGAATGTTTCTATGTGCCACTTCCAAGG
CATTTATCTGAGCGTTCTGAGCAGAATCGGAGATCAGAGGAGGCTCATAGAGCTGAACAG
TTGCAGGATGCGGAGGAGGAAAAAGATGATTCAAATGAAGAAGAAAAACAAGACAGCCTT
GTAGATGATGAAGAAGAGAAAGAAGATCTTGGCGATGAGGATGAAGCAGAGGAAGAAGAG
GAGGAGGACAACCTGGCTGCTGGTGTGGATGAGGAGAGAAGTGAAGCCATGATCAGGGG
CCCCCAGGAGAGGACGGTGTGACCCGGGAGGAAGTAGAGCCTGAGGAGGCTGAAGAAGGC
ATCTCTGAGCAACCCTGCCAGCTGACACAGAGGTGGTGAAGACTCCTTGAGGCAGCGT
AAAAGTCAGCATGCTGACAAGGGACTGTAG
```

Clone variation with respect to NM\_021156.2  
456 a=>g;570 g=>n



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_021156 unedited  
 TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCGTGCCCGAA  
 TTCGGCACGAGGGTCTGCGCCGCTAGGCGTAGGCGGGGTGGCCCTTTCGTCTCCCCTTC  
 CTTGAAAAACCCGGCGGGCGAGCGAGGCTGCGGGCCGGCCGCTGCCCTTCCCCCACTCC  
 CCGCCGAGAAGCCTCGCTCGGCGCCAACATGGCGGGTGGGCGCTGCGGCCCGCAGCTAA  
 CGGCGCTCCTGGCCGCTGGATCGCGGCTGTGGCGGCGACGGCAGGCCCGGAGGAGGCCG  
 CGCTGCCCGCCGGAGCAGAGCCGGTCCAGCCCATGACCGCCTCCAACCTGGACGCTGGTGA  
 TGGAGGGCGAGTGGATGCTGAAATTTTACGCCCATGGTGTCCATCCTGCCAGCAGACTG  
 ATTCAGAATGGGAGGCTTTTGC AAAAATGGTGAATACTTCAGATCAGTGTGGGGAAGG  
 TAGATGTCATTCAAGAACCAGGTTTGGAGTGGCCGCTTCTTTGTCACTACTCTCCAGCAT  
 TTTTTCATGCAAAGGATGGGATATTCCGCCGTTATCGTGGCCAGGAATCTTGAAGACC  
 TGCAGAATTATATCTTAGAGAAGAAATGGCAATCAGTCGAGCCTCTGACTGGCTGGAAT  
 CCCCAGCTTCTAACGATGTCTGGAATGGCTGGTCTTTTATGCATCTCTGGCAGATAT  
 GGCATCTTCAACTATTTACAGTGACTCTTGAATCCTGCTTGGGGTTCTTATGTCTT  
 TTTTCGATAGCACCTTTGGTTTTTGGCCTTTTATGGGTNCGGCCCTGGGGGGAAAAACA  
 ATGTTTCTATGGGCACTTCCAAGGATTAACGAACGGTCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_021156 unedited  
 AAGCAACTTGGTTTGAATAACCGNAATTATTCTAACCAATNAGGTAAGAGAAATGNA  
 GGATTTATTTTTTTTTAAGAAATAGCCTCCCTGGGTAATACTAGTAGATTGAGTATTGAG  
 AGATTTACAAAGATATAATTCTTTGGAAGATTACAGAAGATGGAAACAAAATCAAATCTT  
 TCACTTTAGGTACTGGAGTTCATTAATTCTTTACCAAAAGCACATCACTGAAGGAAAA  
 TCAGAAGTGGTTTTTTAGTTATTATTAAGTAGTTCAAGACCCAGGGAACCCCTTGAGAT  
 GAAACAAAACAGTATTTCAACTTTTCTTACAAGACTACCTTGTACTGGCAAGACTTAGA  
 GGACTTCTGGCTTAAAAATATTGCTTAGAAAACTTAAAAAAAATCAACAACAATA  
 TTTTGGACAAAACATTTTTTTTTTAACTGTCTTGTAAAATCCTTACTTCTTTTGGAGT  
 CTCTGATGGCCACAACATTTTCAATTTGAGATGTTTGGCAGTCACAGCTTCAGGGGTATGG  
 TTAAGTATTCTAAACCCCTTAGGTCAGAATGAACAAACACAGTTTCAATGTAACCTGGC  
 TGTTATTGGAGTCTCTGACCAAGAGATAATAGTGAAGAGTGTGGAGAGCCTGAATGCC  
 ATGGTGGAAATGCTGGAAAAATTAAGGTAAGAAATAAACATAGCACAGGAGATTGAG  
 GGGCTGGGATGACTTCTGAGCTGCTCTATAACCAAGGCCCTTCAATTTCTAGCTGTG  
 AAAGATTTTTCATGCACTGTGGNTGCCTGATGTTTCTGCAATTTGACAAAATAAATACT  
 TTACACAAGAAAAAGATTGCAGGCTTCTACGNTACACTTTGGGGATGCTCAGGAGCCAAG  
 CTNCTGCTGGNCTTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021156

**Insert Size:**

2700 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:**

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\\_021156.2](#), [NP\\_066979.2](#)

**RefSeq Size:** 2368 bp

**RefSeq ORF:** 1050 bp

**Locus ID:** 56255

**UniProt ID:** [Q9H1E5](#)

**Cytogenetics:** 20p12.3

**Protein Families:** Druggable Genome, 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, one transmembrane domain and C-terminal ASP/GLU-rich calcium binding domain. Unlike most members of this gene family, it lacks a C-terminal ER-retention sequence. The encoded protein has been shown to have reductase activity in vitro. [provided by RefSeq, Jan 2017]