

Product datasheet for **SC128172**

TXNDC4 (ERP44) (NM_015051) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNDC4 (ERP44) (NM_015051) Human Untagged Clone
Tag:	Tag Free
Symbol:	TXNDC4
Synonyms:	PDIA10; TXNDC4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128172 sequence for NM_015051 edited (data generated by NextGen Sequencing)

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ATGCATCCTGCCGTCTTCTATCCTTACCCGACCTCAGATGCTCCCTTCTGCTCCTGGTA
ACTTGGGTTTTTACTCCTGTAACAACTGAAATAACAAGTCTTGATACAGAGAATATAGAT
GAAATTTTAAACAATGCTGATGTTGCTTTAGTAAATTTTATGCTGACTGGTGCTGTTTC
AGTCAGATGTTGCATCCAATTTTGGAGAACTCCGATGTCATTAAGGAAGAATTTCCA
AATGAAAATCAAGTAGTGTGGCCAGAGTTGATTGTGATCAGCACTCTGACATAGCCAG
AGATACAGGATAAGCAAATACCCAACCCTCAAATGTTTCGTAATGGGATGATGATGAAG
AGAGAATACAGGGGTGAGCAGTCAAGCATTGGCAGATTACATCAGGCAACAAAAA
AGTGACCCCATCAAGAAATTCGGGACTTAGCAGAAATCACCCTCTTGATCGCAGCAAA
AGAAATATCATTGGATATTTGAGCAAAAGGACTCGGACAACATAGAGTTTTTGAACGA
GTAGCGAATATTTGCATGATGACTGTGCCTTTCTTTCTGCATTTGGGGATGTTTCAAAA
CCGGAAAGATATAGTGGCGACAACATAATCTACAACCACCAGGGCATTCTGCTCCGGAT
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TGTGTTCTCTTGTCCGAGAAATAACATTTGAAAATGGAGAGGAATTGACAGAAGAAGGA
CTGCCTTTTCTCATACTTTTACATGAAAGAAGATACAGAAAGTTTAGAAAATATCCAG
AATGAAGTAGCTCGGCAATTAATAAGTGAAAAAGGTACAATAAACTTTTTACATGCCGAT
TGTGACAAATTTAGACATCCTCTTCTGCACATACAGAAAACCTCCAGCAGATTGCTCTGTA
ATCGCTATTGACAGCTTTAGGCATATGTATGTGTTTGGAGACTTCAAAGATGTATTAATT
CCTGGAAAACCTCAAGCAATTCGTATTTGACTTACATTCTGGAAAACCTGCACAGAGAATTC
CATCATGGACCTGACCCAAGTATACAGCCCCAGGAGAGCAAGCCCAAGATGTAGCAAGC
AGTCCACCTGAGAGCTCCTTCCAGAAAAGTACACCCAGTGAATATAGGTATACTCTATTG
AGGGATCGAGATGAGCTTTAA

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Clone variation with respect to NM_015051.1



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015051 unedited
 TTTGTATACGACTCACTATAGGGCGGCCGGAATCGGCACGAGGCCTCGTGCCGAATTCG
 GCACGAGGGTCGAGAGGACGAGGTGCCGCTGCCTGGAGAATCCTCCGCTGCCGTCGGCTC
 CCGGAGCCAGCCCTTCTCAACCCAACCAACCTAGCCAGTCCCAGCCGCCAGCGCCT
 GTCCCTGTCACGGACCCAGCGTTACCATGCATCCTGCCGCTTCTCCTATCCTTACCCGAC
 CTCAGATGCTCCCTTCTGCTCCTGGTAACTTGGGTTTTTACTCCTGTAACTGAAATA
 ACAAGTCTTGATACAGAGAATATAGATGAAATTTTAAACAATGCTGATGTTGCTTTAGTA
 AATTTTTATGCTGACTGGTGTCTGTTTCAGTCAGATGTTGCATCCAATTTTTGAGGAAGCT
 TCCGATGTCATTAAAGGAAGAATTTCCAAATGAAATCAAGTAGTGTGGCCAGAGTTGAT
 TGTGATCAGCACTCTGACATAGCCAGAGATACAGGATAAGCAAATACCAACCCCTCAA
 TTGTTTCGTAATGGGATGATGATGAAGAGAGAATACAGGGGTGAGCGATCAGTAAAGCA
 TTGGCAGATTACATCAGGCAACAAAAAGTGACCCCATCAAGAAATTCGGGACTTAGCA
 GAAATCACCCTCTTTGATCGCAGCAAAAGAAATATCATTGGGGATATTTGAGCAAAAG
 GACTCGGACAACATAGAGTTTTGAACGAGTAGCGAATATTNTGCATGATGACTGTGCC
 TTTTCTTCTGATTTGGGGATGTTTCAAACCGGAAGATATAGTGGGACACATATCTACAA
 CCACAGGCATTCTGCTCGGATTGGTGTACTTGGAGCTAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015051 unedited
 GGCAGTCCAATTTCTTCTGTTTTNAAAAAAAAAACACATANAATATGAAAATATAGGTTT
 ACTANTTTCCACCACGTAGGTTGATGCTGCTGTTGAAAGGCTTACAACTGTTTTTCAAG
 TTTTTAAAGCTCATCTCGATCCCTCAATAGAGTATACCTATATCACTGGGTGCTAGTTT
 CTGGAAGGAGCTCTCAGGTGGACTGCTTGTACATCTTGGGCTTGTCTCCTGGGCTGT
 ATCAGTTGGGTGAGTCCATGATGGAATCTCTGTGCAGTTTTCCAGAATGTAAGTCAAA
 TACGAATTGCTTGAGTTTTCCAGGAATTAATACATCTTTGAAAGTCTCAAACACATACAT
 ATGCCTAAAGCTGTCAATAGCGATTACAGGACAATCTGCTGGAGTTTTCTGTATGTGCGA
 AAGAGGATGTCTAAATTTGTCACAATCGGCATGTAAAAAGTTATTGTACCTTTTTCACT
 TATTAATTGCCGAGCTACTTCATTCTGGAATATTTCTAACTTTCTGTATCTTCTTTTCA
 GTGAAAGAGTATGAGAAAAGGAGTCTTCTTCTGCAATTCCTCCTCATTTTTCAATGT
 TATTTCTCGGACAAGAGGAACACATTTATCTTGAATCCAATTGTAAGTACATCAAAAT
 TGGCATAGCTCCCAAGTACCCATATCCGGAGCAGAATGCCCTGTGGTTTAAAAATTAT
 GTTGTTCGCCACTATTTCTTCCGGTTTTGAAACATCCCAATGCAGAAAGAAAAGCCC
 AGTCTCATGCCAAAAATTTCCGTAATTCGTCAAAAACTCTTTAAGTGGCCCAAGTCTTT
 TTGCTCAATAACCAATGGTATTTCCTTTTGTGCGATCAAAGGGGGGATTCCG

Restriction Sites:

NotI-NotI

ACCN:

NM_015051

Insert Size:

1530 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_015051.1](#), [NP_055866.1](#)

RefSeq Size: 4862 bp

RefSeq ORF: 1221 bp

Locus ID: 23071

UniProt ID: [Q9BS26](#)

Cytogenetics: 9q31.1

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the protein disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins. It has an inferred N-terminal signal peptide, a catalytically active thioredoxin (TRX) domain, two TRX-like domains and a C-terminal ER-retention sequence. This protein functions as a pH-regulated chaperone of the secretory pathway and likely plays a role in protein quality control at the endoplasmic reticulum - Golgi interface. [provided by RefSeq, Dec 2016]