

Product datasheet for **RC202796**

TXNDC4 (ERP44) (NM_015051) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | TXNDC4 (ERP44) (NM_015051) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | TXNDC4 |
| Synonyms: | PDIA10; TXNDC4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC202796 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATCCTGCCGTCTTCTATCCTTACCCGACCTCAGATGCTCCCTTCTGCTCCTGGTAACTTGGGTTT
TTACTCCTGTAACAACACTGAAATAACAAGTCTTGATACAGAGAATATAGATGAAATTTTAAACAATGCTGA
TGTTGCTTTAGTAAATTTTATGCTGACTGGTGTCTGTTTCAGTCAGATGTTGCATCCAATTTTGGAGAA
GCTTCCGATGTCATTAAGGAAGAATTTCCAATGAAAATCAAGTAGTGTGGCCAGAGTTGATTGTGATC
AGCACTCTGACATAGCCAGAGATACAGGATAAGCAAATACCCAACCCTCAAATGTTTCGTAATGGGAT
GATGATGAAGAGAGAATACAGGGGTCAGCGATCAGTGAAAGCATTGGCAGATTACATCAGGCAACAAAA
AGTGACCCCATCAAGAAATTCGGGACTTAGCAGAAATCACCACTCTTGATCGCAGCAAAAAGAAATATCA
TTGGATATTTGAGCAAAAGGACTCGGACAACATAGAGTTTTGAAACGAGTAGCGAATATTTGTCATGA
TGACTGTGCCTTTCTTCTGCAATTTGGGGATGTTTCAAACCCGAAAGATATAGTGGCGACAACATAATC
TACAAACCACAGGGCATTCTGCTCCGGATATGGTGTACTTGGGAGCTATGACAAATTTGATGTGACTT
ACAATTGGATTCAAGATAAATGTGTTCTTGTCCGAGAAATAACATTTGAAAATGGAGAGGAATTGAC
AGAAGAAGGACTGCCTTTTCTACTCTTTTACATGAAAAGATACAGAAAGTTTGAATATTTCCAG
AATGAAGTAGCTCGCAATTAATAAGTGAAAAGGTACAATAAACTTTTACATGCCGATTGTGACAAAT
TTAGACATCCTCTTCTGCACATACAGAAAACCCAGCAGATTGTCTGTAATCGCTATTGACAGCTTTAG
GCATATGTATGTGTTGGAGACTTCAAAGATGTATTAATTCCTGGAAAACCAAGCAATTCGATTTGAC
TTACATCTGAAAACGACAGAGAATTCATCATGGACCTGACCCAACGATACAGCCCCAGGAGAGC
AAGCCCAAGATGTAGCAAGCAGTCCACCTGAGAGCTCCTCCAGAAAACAGCACCCAGTGAATATAGGTA
TACTCTATTGAGGGATCGAGATGAGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_015051.3](#)

RefSeq Size: 4862 bp

RefSeq ORF: 1221 bp

Locus ID: 23071

UniProt ID: [Q9BS26](#)

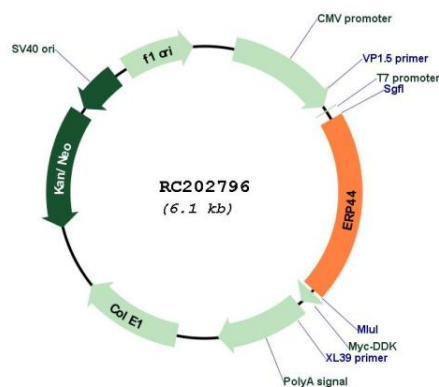
Cytogenetics: 9q31.1

Protein Families: Druggable Genome

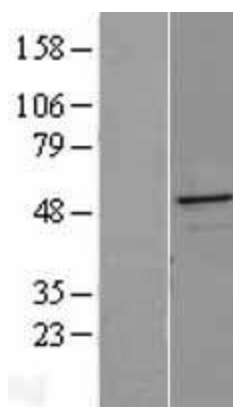
MW: 47 kDa

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]

Product images:



Circular map for RC202796



Western blot validation of overexpression lysate (Cat# [LY402403]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202796 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ERP44 protein (Cat# [TP302796]). The protein was produced from HEK293T cells transfected with ERP44 cDNA clone (Cat# RC202796) using MegaTran 2.0 (Cat# [TT210002]).