

Product datasheet for **RG202796**

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: TurboGFP
Symbol: TXNDC4
Synonyms: PDIA10; TXNDC4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202796 representing NM_015051
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCATCCTGCCGTCTTCTATCCTTACCCGACCTCAGATGCTCCCTTCTGCTCCTGGTAACTTGGGTTT
 TTA CTCTGTAACTGAAATAACAAGTCTTGATACAGAGAATATAGATGAAATTTTAAACAATGCTGA
 TGTTGCTTTAGTAAATTTTATGCTGACTGGTGTCTGTTTCAGTCAGATGTTGCATCCAATTTTGGAGAA
 GCTTCCGATGTCATTAAGGAAGAATTTCCAATGAAAATCAAGTAGTGTGGCCAGAGTTGATTGTGATC
 AGCACTCTGACATAGCCAGAGATACAGGATAAGCAAATACCCAACCTCAAATGTTTCGTAATGGGAT
 GATGATGAAGAGAGAATACAGGGGTGAGGATCAGTGAAAGCATTGGCAGATTACATCAGGCAACAAAA
 AGTGACCCCATCAAGAAATTCGGGACTTAGCAGAAATCACCACTCTTGATCGCAGCAAAAAGAAATCA
 TTGGATATTTGAGCAAAAGGACTCGGACAACATAGAGTTTTGAAACGAGTAGCGAATATTTGATGATG
 TGACTGTGCCCTTCTTCTGCAATTTGGGGATGTTTCAAACCGGAAAGATATAGTGGCGACAACATAATC
 TACAAACCACAGGGCATTCTGCTCCGGATATGGTGTACTTGGGAGCTATGACAAATTTGATGTGACTT
 ACAATTGGATTCAAGATAAATGTGTTCTCTTGTCCGAGAATAACATTTGAAAATGGAGAGGAATTGAC
 AGAAGAAGGACTGCCTTTTCTACTCTTTTACATGAAAAGATACAGAAAAGTTTGAATATTTCCAG
 AATGAAGTAGCTCGCAATTAATAAGTAAAAAGGTACAATAAACTTTTTACATGCCGATTGTGACAAAT
 TTAGACATCCTCTTCTGCACATACAGAAAACCTCAGCAGATTGTCTGTAATCGCTATTGACAGCTTTAG
 GCATATGTATGTGTTGGAGACTTCAAAGATGTATTAATTCCTGGAAAACCAAGCAATTCGATTTGAC
 TTACATCTGAAAACCTGCACAGAGAATTCATCATGGACCTGACCCAACCTGATACAGCCCCAGGAGAGC
 AAGCCCAAGATGTAGCAAGCAGTCCACCTGAGAGCTCCTCCAGAAAACCTAGCACCCAGTGAATATAGGTA
 TACTCTATTGAGGGATCGAGATGAGCTT

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >RG202796 representing NM_015051
 Red=Cloning site Green=Tags(s)

MHPAVFLSLPDLRCSLLLLVTWVFTPVTTEITSLDTENIDEILNNADVALVNFYADWCRFSQMLHPIFEE
 ASDVIKEEFPNENQVVFARVDCDQHSIDIAQRYRISKYPTLKLFRNGMMMKREYRGQRSVKALADYIRQQK
 SDPIQEIRDIAEITTLDRSKRNIIGYFEQKSDNYRVFERVANILHDDCAFLSAFGDVSKPERYSGDNI
 YKPPGHSAPDMVYL GAMTNFDVTYNWIQDKCVPLVREITFENGEELTEEGLPFLILFHMKEDTESLEIFQ
 NEVARQLISEKGTINFLHADCDKFRHPLLHIQKTPADCPVIAIDFRHMYVFGDFKDVLIIPGKLGKQFVFD
 LHSGKHLHREFHHGPDPTDTAPGEQAQDVASSPPESSFQKLAPSEYRYTLLRDRDEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015051

ORF Size: 1218 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_015051.3](#)

RefSeq Size: 4862 bp

RefSeq ORF: 1221 bp

Locus ID: 23071

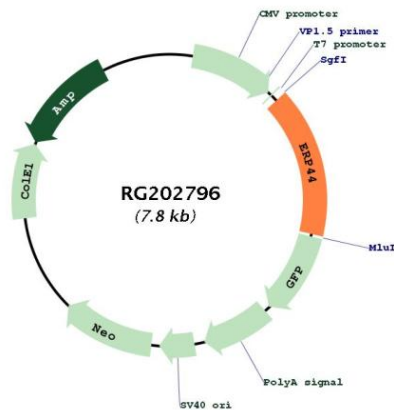
UniProt ID: [Q9BS26](#)

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]

Product images:



Circular map for RG202796