

Product datasheet for **SC109657**

TXNDC5 (NM_030810) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNDC5 (NM_030810) Human Untagged Clone
Tag:	Tag Free
Symbol:	TXNDC5
Synonyms:	ENDOPDI; ERP46; HCC-2; HCC2; PDIA15; STRF8; UNQ364
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_030810, the custom clone sequence may differ by one or more nucleotides

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ATGCCCGCGGCCAGGACGCCTCTCCCGCTGCTGGCCCGGCCGGCCCTGACTGCGCTGCTGCTGC
TGCTGCTGGGCCATGGCCGGCGGGCGCTGGGGCGCCGGGCCAGGAGCGCGCGCGCGCGCGGA
CGGGCCCCCGCGGCAGACGGCGAGGACGGACAGGACCCGCACAGCAAGCACCTGTACACGGCCGACATG
TTCACGCACGGGATCCAGAGCGCCGCGCACTTCGTCATGTTCTTCGCGCCCTGGTGTGGACTGCCAGC
GGCTGCAGCCGACTTGAATGACCTGGGAGACAAATAACACAGCATGGAAGATGCCAAAGTCTATGTGGC
TAAAGTGGACTGCACGGCCACTCCGACGTGTGCTCCGCCAGGGGTGCGAGGATACCCACCTTAAAG
CTTTTCAAGCCAGGCCAAGAAGCTGTGAAGTACCAGGTCCTCGGGACTCCAGACTGGAAAAGTGA
TGCTGCAGACTGAACGAGGAGCCAGTGACACCAGAGCCGGAAGTGAACCGCCAGTGCCTCCGAGCT
CAAGCAAGGGCTGTATGAGCTCTCAGCAAGCAACTTTGAGCTGCACGTTGCACAAGGCGACCACTTTATC
AAGTTCTTCGCTCCGTGGTGTGGTCACTGCAAAGCCCTGGCTCCAACCTGGGAGCAGCTGGCTCTGGCC
TTGAACATCCGAAACTGTCAAGATTGGCAAGGTTGATTGTACACAGCACTATGAACTCTGCTCCGAAA
CCAGGTTTCGTGGCTATCCCACTTCTCTGGTCCGAGATGGGAAAAAGGTGGATCAGTACAAGGAAAAG
CGGGATTTGGAGTCACTGAGGGAGTACGTGGAGTCGACGCTGCAGCGCACAGAGACTGGAGCGACGGAGA
CCGTCACGCCCTCAGAGGCCCGGTGCTGGCAGCTGAGCCGAGGCTGACAAGGGCACTGTGTTGGCACT
CACTGAAAATAACTTCGATGACACCATTGCAGAAGGAATAACCTTCATCAAGTTTTATGCTCCATGGTGT
GGTCATTGTAAGACTCTGGCTCCTACTTGGGAGGAAGTCTTAAAAAGGAATCCCTGGTCTGGCCGGGG
TCAAGATCGCCGAAGTAGACTGCACTGTGAACGGAATATCTGCAGCAAGTATTCGGTACGAGGCTACCC
CACGTTATTGCTTTCCGAGGAGGAAGAAAGTCAGTGAGCACAGTGGAGGCAGAGACCTTGACTCGTTA
CACCGCTTTGCTCTGAGCCAAGCGAAAGACGAACCTTAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_030810 unedited
 CCCGGGTACCATTTGTAACGACTCATATAGGCGGCTGCGAATCGGCACGAGGCGAGGA
 CGGACAGGACCCGCACAGCAAGCACCTGTACACGGCCGACATGTTACGCACGGGATCCA
 GAGCGCCGCGCACTTCGTATGTTCTTCGCGCCCTGGTGTGGACTGCCAGCGGCTGCA
 GCCGACTTGGAAATGACCTGGGAGACAAATACAACAGCATGGAAGATGCCAAAGTCTATGT
 GGCTAAAGTGGACTGCACGGCCCACTCCGACGTGTGCTCCGCCAGGGGGTGCAGAGATA
 CCCCACCTTAAAGCTTTTCAAGCCAGGCCAAGAAGCTGTGAAGTACCAGGGTCTCGGGA
 CTTCCAGACACTGAAAACTGGATGCTGCAGACACTGAACGAGGAGCCAGTGACACCAGA
 GCCGGAAGTGGAACCGCCAGTGCACCCGAGCTCAAGCAAGGGCTGTATGAGCTCTCAGC
 AAGCAACTTTGAGCTGCACGTTGCACAAGGCGACCACTTTATCAAGTTCTTCGCTCCGTG
 GTGTGGTCACTGCAAAGCCCTGGCTCCAACCTGGGAGCAGCTGGCTCTGGGCCTTGAACA
 TTCCGAAACTGTCAAGATTGGCAAGGTTGATTGTACACAGCACTATGAAGTCTGCTCCGG
 ACACCAGTTCGTGGCTATCCCACTCTTCTGTTCCGAGATGGGAACAAGGTGGATCA
 GTACAAGGACAGCGGGATTTGGAGTCACTGANGGAGTACGTGAAGTCCAGCTGCAGCG
 CACAGAGACTGGAGCGACGGAGACCGTCAAGCCCTCAGAGGCCCGGTGCTGCCAGCTGA
 GCCCCGAGCTGACAAGGCCCTGTGTTGGCACTACCTGAAATAACTCCGATGCCCCATTGC
 CACAGGATACCCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_030810 unedited
 TATGGACCGCGCACGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 AAAAAAAAAAAGTTTATCTTAGAAAGTATCATAGTAAACAAACAAATGTACCACTTT
 GATTTTCTTGAATACAAGACTCGTGATGCAAAGCTGAAGTTGTGTGTACAAAACCTTG
 ACAGTTGTCTTCTAGGAGTTGGGTTTTTTTTAAAAAAGAATTATCTGTGAACCATA
 CGTGATTAATAAAGATTTCCCTTAAAGGCAAGGCTGGTGCAAATGCTGCTTATCTTCT
 GCCTCAAACAGACAGTATAAGTGGTCTTGTCTTAAAAATCCTACCACAGTTACTTTGG
 GCCAAGTATCCACATCCCCTTGCATATGGGAGGTGGGTGAAAAGTGTGGATGCAAAGTG
 GTTATTATGGGAAGTAGCTCGATGGTAAAAGGACAAACACCTATCTATCTAAAGCTTAA
 GCCTGTATGTGCTTATCCCAAGGGAGATAGAGGTGTTAATCACAAGGACAGCATGAGT
 TAGAGGACACTGGCATCAACAGCTGCCACAGCCGTGCACACCAGGGCCAGAGCAGCCAC
 TGACATCTGTCTTTGGTCTTGAGATCAAATGCATCCCATTCTTCATACATTAGAAGGTCC
 ACCTCCTTGAAGCAGACCAAGTATAGCAAGCCTCTAAAAGGACTACTGAGAAACAGAATC
 AGAAACTCTANAACCTAGTTAGGGCCCTCAGCAGGGCTGCAGAGCCCTCCCTGGATAC
 CCAGGCCCTGGGAAAGCCTGTCTGGTCTTGTCCCCCAGTGACAAAATCACTGGAATCCTTC
 ATGAGTTATGAAAAGTAAATGACCCCTGGGGATTTTTTCATGCTACCCTTCTAAGAGACT
 CCACAGTTATGGGGCCTTGTCTCTGTTACTGAAGACTAAGACAGGTTACCCCGAAAAA
 AAGTCCCCGACATAA

Restriction Sites:

NotI-NotI

ACCN:

NM_030810

Insert Size:

2870 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_030810.1](#), [NP_110437.1](#)

RefSeq Size: 3231 bp

RefSeq ORF: 3231 bp

Locus ID: 81567

UniProt ID: [Q8NBS9](#)

Cytogenetics: 6p24.3

Domains: thioered

Protein Families: Druggable Genome

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 endoplasmic reticulum (ER)-signal sequence, three catalytically active thioredoxin domains and a C-terminal ER-retention sequence. Its expression is induced by hypoxia and its role may be to protect hypoxic cells from apoptosis. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring upstream BLOC1S5 gene. [provided by RefSeq, Dec 2016]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).