

Product datasheet for **SC326461**

TXNDC5 (NM_001145549) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TXNDC5 (NM_001145549) Human Untagged Clone
Tag: Tag Free
Symbol: TXNDC5
Synonyms: ENDOPDI; ERP46; HCC-2; HCC2; PDIA15; STRF8; UNQ364
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_001145549, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGATGCCAAAGTCTATGTGGCTAAAGTGGACTGCACGGCCCACTCCGACGTGTGC
TCCGCCAGGGGGTGCAGGATACCCACCTTAAAGCTTTTCAAGCCAGGCCAAGAAGCT
GTGAAGTACCAGGGTCTCGGGACTTCCAGACTGGAAAAGTGGATGCTGCAGACTG
AACGAGGAGCCAGTGACACCAGAGCCGGAAGTGAACCGCCAGTGCCCCGAGCTCAAG
CAAGGGCTGTATGAGCTCTCAGCAAGCAACTTTGAGCTGCACGTTGCACAAGGCGACCAC
TTTATCAAGTTCTTCGCTCCGTGGTGTGGTCACTGCAAAGCCCTGGCTCCAACCTGGGAG
CAGCTGGCTCTGGGCCTTGAACATTCGAAACTGTCAAGATTGGCAAGGTTGATTGTACA
CAGCACTATGAACTCTGCTCCGAAACCAGGTTGGTGGCTATCCCACTTCTCTGGTTC
CGAGATGGGAAAAGGTGGATCAGTACAAGGAAAGCGGGATTTGGAGTCACTGAGGGAG
TACGTGGAGTCGCAGCTGCAGCGCACAGAGACTGGAGCGACGGAGACCGTCACGCCCTCA
GAGGCCCGGTGCTGGCAGCTGAGCCCGAGGCTGACAAGGGCACTGTGTTGGCACTCACT
GAAAATAACTTCGATGACACCATTGCAGAAGGAATAACCTTCATCAAGTTTTATGCTCCA
TGGTGTGGTCATTGTAAGACTCTGGCTCCTACTGGGAGGAACCTCTAAAAAGGAATTC
CCTGGTCTGGCGGGGTCAAGATCGCCGAAGTAGACTGCACTGCTGAACGGAATATCTGC
AGCAAGTATTCGGTACGAGGCTACCCACGTTATTGCTTTCCGAGGAGGGAAGAAAGTC
AGTGAGCACAGTGGAGGCAGAGACCTTGACTCGTTACACCGCTTGTCTGAGCCAAGCG
AAAGACGAACTT
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Restriction Sites: Please inquire
ACCN: NM_001145549
Insert Size: 3195 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).



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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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:	<u>NM_001145549.1</u> , <u>NP_001139021.1</u>
RefSeq Size:	3195 bp
RefSeq ORF:	3195 bp
Locus ID:	81567
UniProt ID:	<u>Q8NBS9</u>
Cytogenetics:	6p24.3
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region and uses a downstream start codon, compared to variant 1. The resulting isoform (3) is shorter at the N-terminus, compared to isoform 1.</p>