

Product datasheet for **RG226706**

TXNDC5 (NM_001145549) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TXNDC5 (NM_001145549) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TXNDC5
Synonyms: ENDOPDI; ERP46; HCC-2; HCC2; PDIA15; STRF8; UNQ364
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG226706 representing NM_001145549
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGATGCCAAAGTCTATGTGGCTAAAGTGGACTGCACGGCCACTCCGACGTGTGCTCCGCCAGG
GGGTGCGAGGATACCCACCTTAAAGCTTTTCAAGCCAGGCCAAGAAGCTGTGAAGTACCAGGGTCTCG
GGACTTCCAGACACTGAAAACTGGATGCTGCAGACACTGAACGAGGAGCCAGTGACACCAGAGCCGGAA
GTGGAACCGCCAGTCCCCGAGCTCAAGCAAGGGCTGTATGAGCTCTCAGCAAGCAACTTTGAGCTGC
ACGTTGCACAAGGCGACCACTTTATCAAGTTCTTCGCTCCGTGGTGTGGTCACTGCAAAGCCCTGGCTCC
AACCTGGGAGCAGCTGGCTCTGGCCTTGAACATTCCGAAACTGTCAAGATTGGCAAGGTTGATTGTACA
CAGCACTATGAACTCTGCTCCGAAACAGGTTTCGTGGCTATCCCACTCTTCTCTGGTCCGAGATGGGA
AAAAGGTGGATCAGTACAAGGAAAGCGGGATTTGGAGTCACTGAGGGAGTACGTGGAGTCGCAGCTGCA
GCGCACAGAGACTGGAGCGACGGAGACCGTACGCCCTCAGAGGCCCGGTGCTGGCAGCTGAGCCCGAG
GCTGACAAGGGCACTGTGTTGGCACTCACTGAAAATAACTTCGATGACACCATTGCAGAAGGAATAACCT
TCATCAAGTTTTATGCTCCATGGTGTGGTCATTGTAAGACTCTGGCTCCTACTTGGGAGGAACTCTCTAA
AAAGGAATTCCTGGTCTGGCGGGGTCAAGATCGCCGAAGTAGACTGCACTGCTGAACGGAATATCTGC
AGCAAGTATTCGGTACGAGGCTACCCACGTTATTGCTTTTCCGAGGAGGGAAGAAGTCACTGAGCACA
GTGGAGGCAGAGACCTTGACTCGTTACACCGCTTTGTCTGAGCCAAGCGAAAGCAAGCAACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226706 representing NM_001145549
 Red=Cloning site Green=Tags(s)

MEDAKVYVAKVDCTAHSADVCSAQGVRGYPTLKLFKPGQEAVKYQGPRDFQTLNWMQLTLNEEPTPEPE
 VEPPSAPELKQGLYELASNFELHVAQGDHF IKFFAPWCGHCKALAPTWEQLALGLEHSETVKIGKVDCT
 QHYELCSGNQVRGYPTLLWFRDGGKVDQYKGRDLESLREYVESQLQRTETGATEVTVPSEAPVLAEEPE
 ADKGTVLAL TENNFDDTIAEGITFIKFYAPWCGHCKTLAPTWEELSKKEFPGLAGVKIAEVDCTAERNIC
 SKYSVRGYPTLLLFRGGKKVSEHSGGRDLDLHHRFVLSQAKDEL

TRTRPLE - GFP Tag - V

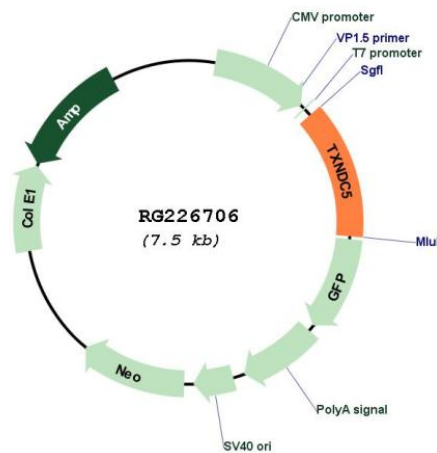
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001145549

ORF Size: 972 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:	<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:	NM_001145549.3
RefSeq Size:	3195 bp
RefSeq ORF:	975 bp
Locus ID:	81567
UniProt ID:	Q8NBS9
Cytogenetics:	6p24.3
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]