

Product datasheet for **RG206695**

TXNDC2 (NM_032243) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNDC2 (NM_032243) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TXNDC2
Synonyms:	SPTRX; SPTRX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206695 representing NM_032243
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCAGCCACACGTTCCACATGCGCACAGAGGAGTCTGATGCCTCACAGGAGGGCGATGACCTACCCA
 AGTCCTCAGCAAACACCAGCCATCCCAAGCAGGATGACAGCCCCAAGTCCTCAGAAGAAACCATCCAGCC
 CAAGGAGGGTGACATCCCCAAGGCCCCAGAAGAAACCATCCAATCCAAGAAGGAGGACCTCCCCAAGTCC
 TCAGAAAAAGCCATCCAGCCCAAAGAGAGTAACATCCCCAAGTCCTCAGCAAAACCCATCCAGCCCAAGC
 TGGGCAATATTCCAAGGCCTCAGTGAAGCCAGCCAGCCCAAGGAGGGTGACATCCCCAAGGCCCCAGA
 AGAAACCATCCAATCCAAGAAGGAGGACCTCCCCAAGTCCTCAGAAGAAGCCATCCAGCCCAAAGAGGGT
 GACATCCCCAAGTCCTCAGCAAAACCCATCCAGCCCAAGCTGGGCAATATTGCCAAGACCTCAGTGAAGC
 CCAGCCAGCCCAAGGAGAGTGATATCCCCAAGTCCCAGAAGAAACCATCCAGCCCAAGGAGGGTGACAT
 CCCCAGTCCTCAGCAAGGCCATCCAGCCCAAGCTGGGCAATATTCCAAGGCCTCAGTGAAGCCAGC
 CAGCCCAAGGAGGGTGACATCTCCAAGTCCCAGAAGAAGCCATCCAGCCCAAGGAGGGTGACCTCCCCA
 AGTCCCTAGAGGAAGCCATCCAGCCCAAGGAGGGTGACATCCCCAAGTCCCAGAAGAAGCCATCCAGCC
 CAAGGAGGGTGACATCCCCAAGTCCCTAGAGGAAGCCATCCAGCCTAAGGAGGGTGACATCCCCAAGTCC
 CCAGAAGAAACCATCCAGCCCAAGAAGGGTGACATCCCCAAGTCCCAGAAGAAGCCATCCAGCCCAAGG
 AGGGTGACATTCCAAGTCTCCAAAACAAGCCATCCAGCCCAAGGAGGGTGACATTTCCAAGTCCCTAGA
 GGAAGCCATCCCACCAAGGAGATTGACATCCCCAAGTCCCAGAAGAAACCATCCAGCCCAAGGAGGAT
 GACAGCCCAAGTCCCTAGAAGAAGCCACCCATCCAAGGAGGGTGACATCCTAAAGCCTGAAGAAGAAA
 CAATGGAGTTCCCGGAGGGGACAAGGTGAAAGTGATCCTGAGCAAGGAGGACTTTGAGGCATCACTGAA
 GGAGGCCGGGGAGAGGCTGGTGGCTGTGGACTTCTCGGCCACGTGGTGTGGGCCCTGCAGGACCATCAGA
 CCATTCTTCATGCCCTGTCTGTGAAGCATGAGGATGTGGTGTTCCTGGAGGTGGACGCTGACAACCTGTG
 AGGAGGTGGTGAGAGAGTGCGCCATCATGTGTGTCCCAACCTTTTCAGTTTATAAAAAAGAAGAAAGGT
 GGATGAACCTTTCGGCGCCCTTAAGGAAAACTGAAGCAGTCATTGCAGAATTAAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206695 representing NM_032243
 Red=Cloning site Green=Tags(s)

MVSHTFHMRTESDASQEGDDLKSSANTSHPKQDDSPKSSEETIQPKEGDIPKAPEETIQSKKEDLPKS
 SEKAIQPKESNIPKSSAKPIQPKLGNIPKASVKPSQPKEGDIPKAPEETIQSKKEDLPKSSEETIQPKEG
 DIPKSSAKPIQPKLGNIAKTSVKPSQPKESDIPKSPEETIQPKEGDIPKSSAKPIQPKLGNIPKASVKPS
 QPKEGDISKSPKEAIQPKEDLPKSLEETIQPKEGDIPKSPEETIQPKEGDIPKSLEETIQPKEGDIPKS
 PEETIQPKKGDIPKSPEETIQPKEGDIPKSPKQAIQPKEDIPKSLEETIPKEIDIPKSPEETIQPKED
 DSPKSLEETIPKEGDILKPEEETMEFPEGDKVKVILSKEDFEASLKEAGERLVAVDFSATWCGPCRTIR
 PFFHALSVKHEDVVFLEVDADNCEEVRECAIMCVPTFQFYKKEEKVDELCEGALKEKLEAVIAELK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032243

ORF Size: 1458 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_032243.6](#)

RefSeq Size: 1972 bp

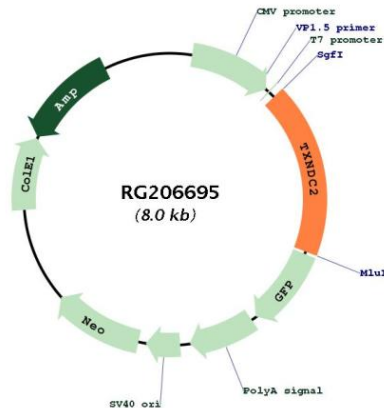
RefSeq ORF: 1461 bp

Locus ID: 84203

UniProt ID: [Q86VQ3](#)

Cytogenetics:	18p11.22
Protein Families:	Druggable Genome
Gene Summary:	Probably plays a regulatory role in sperm development. May participate in regulation of fibrous sheath (FS) assembly by supporting the formation of disulfide bonds during sperm tail morphogenesis. May also be required to rectify incorrect disulfide pairing and generate suitable pairs between the FS constituents. Can reduce disulfide bonds in vitro in the presence of NADP and thioredoxin reductase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206695