

Product datasheet for **SC316404**

TXNDC2 (NM_001098529) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: TXNDC2

Synonyms: SPTRX; SPTRX1

Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_001098529, the custom clone sequence may differ by one or more nucleotides

```
ATGGATGTAGACAAGGAAGTGAATGGAAGTGTAAAGCTGGAGCCTCTGAAAAACCA
GAAATGAGGCTGGGCACTCAGGAAGAAACAAGTGAAGGTGATGCTAATGAAAGTCATTA
CTAGTCTGTCCAGCAACGTGCCTCTCTGGCCCTAGAGTTCTTGAAATAGCCAGGCC
AAAGAGAAGGCCTTTCTCCCATGGTCAGCCACACGTTCCACATGCGCACAGAGGAGTCT
GATGCCTCACAGGAGGGCGATGACCTACCCAAGTCCTCAGCAAACACCAGCCATCCCAAG
CAGGATGACAGCCCAAGTCTCAGAAGAAACCATCCAGCCCAAGGAGGGTGACATCCCC
AAGGCCCCAGAAGAAACCATCCAATCCAAGAAGGAGGACCTCCCCAAGTCTCAGAAAAA
GCCATCCAGCCCAAGAGAGTAACATCCCAAGTCCTCAGCAAAACCCATCCAGCCCAAG
CTGGGCAATATTCCCAAGGCCTCAGTGAAGCCAGCCAGCCCAAGGAGGGTGACATCCCC
AAGGCCCCAGAAGAAACCATCCAATCCAAGAAGGAGGACCTCCCCAAGTCTCAGAAGAA
GCCATCCAGCCCAAGAGGGTGACATCCCCAAGTCCTCAGCAAAACCCATCCAGCCCAAG
CTGGGCAATATTGCAAGACCTCAGTGAAGCCAGCCAGCCCAAGGAGAGTGATATCCCC
AAGTCCCCAGAAGAAACCATCCAGCCCAAGGAGGGTGACATCCCCAAGTCTCAGCAAG
CCCATCCAGCCCAAGCTGGGCAATATTCCCAAGGCCTCAGTGAAGCCAGCCAGCCCAAG
GAGGGTGACATCTCCAAGTCCCAGAAGAACCATCCAGCCCAAGGAGGGTGACCTCCCC
AAGTCCCTAGAGGAAGCCATCCAGCCCAAGGAGGGTGACATCCCCAAGTCCCCAGAAGAA
GCCATCCAGCCCAAGGAGGGTGACATCCCCAAGTCCCTAGAGGAAGCCATCCAGCCTAAG
GAGGGTGACATCCCCAAGTCCCAGAAGAAACCATCCAGCCCAAGGAGGGTGACATCCCC
AAGTCCCCAGAAGAACCATCCAGCCCAAGGAGGGTGACATTCCAAGTCTCCAAAACAA
GCCATCCAGCCCAAGGAGGGTGACATTCCAAGTCCCTAGAGGAAGCCATCCACCCCAAG
GAGATTGACATCCCCAAGTCCCAGAAGAAACCATCCAGCCCAAGGAGGATGACAGCCCC
AAGTCCCTAGAAGAACCCCATCCAAGGAGGGTGACATCTAAAGCCTGAAGAAGAA
ACAATGGAGTTCCCGGAGGGGGACAAGGTGAAAGTGATCCTGAGCAAGGAGGACTTTGAG
GCATCACTGAAGGAGGCCGGGGAGAGGCTGGTGGCTGTGGACTTCTCGGCCACGTGGTGT
GGGCCCTGCAGGACCATCAGACCATTCTTCATGCCCTGTCTGTGAAGCATGAGGATGTG
GTGTTCTGGAGGTGGACGCTGACAACTGTGAGGAGGTGGTGAGAGAGTGCGCCATCATG
TGTGTCCCAACCTTTAGTTTTATAAAAAAGAAGAAAGGTGGATGAACCTTTCGGCGGCC
CTTAAGGAAAACTGAAGCAGTCATTGCAGAATTAAG
```

Restriction Sites: Please inquire



ACCN:	NM_001098529
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).
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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001098529.1</u> , <u>NP_001091999.1</u>
RefSeq Size:	2175 bp
RefSeq ORF:	1662 bp
Locus ID:	84203
UniProt ID:	<u>Q86VQ3</u>
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]

Transcript Variant: This variant (2) uses a different splice site, resulting in a longer open reading frame through the use of an upstream start codon, compared to variant 1. The predicted protein (isoform 2) has a longer N-terminus compared to isoform 1.