

Product datasheet for **RN216895**

Txndc2 (NM_001146004) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Txndc2 (NM_001146004) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Txndc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN216895 representing NM_001146004
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTAAGAAGAACCAAAAGCTGAGTAAGGACAAGGGTTGGAGGTGAACAGCGTCCAAGCAGGAGCCC
 CTGAAGAGTCAGATGTGAACTTAACAATGGAGGAAAAGCAAATGAAAGGGTAGCAATGAGTTCTTGGA
 TACAGCCCACTCCAAAGAAAAAGTCATTGCTTCGGTGGTCCGCAACATGTTTCATATGTCCACAGAAGAG
 TCTGAGCCCCACAGCAGGTTAGTAGCACCTCCATGTTCTCAGAAAAACCATCTATCCCAACACGAAG
 GGAGCCCCAAGTCTCAACAAAAACACTCAGCTGAAACAGGAAGACATTTCTAAACCTCAAGCTACTC
 CAAGCAGACCAACTCTAGCAACATCCCCAAGTCTTGGAATAACACCTATCCCAACAGGGGAGCACT
 CTCAAGCTGCAGCAAATGGTACCCATGACAGGGAGGCTGAAAAGCCCAAGTCTCAGAAGACCTCATCC
 AATCCAAGAAAGGGGACATATTCAGGCCTTCAGAAGACTCCATCCAATCCAAGAAAGGGGACATGCCAA
 GTCTCAGAAGACCCCATCCAATCCAAAAAGGATGACACGGCCAAGTCTTTAGAAGATACCATCCAATCC
 AAGAATGGGGACATGCCCAAGTCTCAGAAGACCCCATCCAATCCAAAAAGGATGACACGGCCAGGTCTT
 TAGAAGATTCCATCCAATCCAAGAAAGGGGACATGCCCAAGTCTCAGACACCATTCAATCCAAGGAAAG
 CGAAACACCCAAGTTCTTGCAAGGACACCATCCAATCCAAGGGAGGTAAAAACAACAAAGTGAAAGAC
 AGCATGAAGTCCAAGGAGAGTAAATTCGCAAGCCCTTGAAGACAGCATCCAGTCCAAGGAGAACAAAA
 TCCCAAGTCTCACAGGACTCCGCCAGCCTAAGGAGGGTAAATCCACAAGCCCTTAAAGACAGCCT
 CCCATCCAAGGAGGAGATATCTTAAGCCCTCAGAAGACACCATCCAGGCCAAGGAAGAAATCACCGTG
 TCCCCAGAAGACACCATCCAGGCCAAGGAAGAAATCACCATGTCCCCAGAAGACACCATCCAGGCCAAGG
 AAGAAATCACCGTGTCCCCAGAAGACACCATCCAGGCCAAGGAAGAAATCACCGTGTCCCCAGAAGACAC
 CATGCAGTCTAAGGAAGAAATCACCGTGTCCCCAGAAGACACAGTCCAGTCCCAGGAAGGTGACATCAAG
 TCTTCAGAAGACGTGCAGCCCTCGGAGAACGAAATCTTCCTTTTGAAGCAGAAATAGAGACCCTGGAGG
 AAGGCATGGTGAGAGTGATCAAAGACAAAGAAGAGTTTGAGGAGGTGCTCAAAGATGCTGGAGAGAAGCT
 GGTAAGTGTAGATTTCTCAGCCCTTGGTGTGGCCCTTGCAAAAGATGAGGCCACACTTCCATTCCCTG
 TCTTTGAAGCATGAAGATGTGATATTCTTGAGGTGGATACTGAGGACTGTGAACAGCTGGTGCAAGACT
 GTGAGGTCTTCCACCTCCGACTTTCAGTTTATAAAAAACGAAGAAAGGTGGGTGAATTTTCGGGTGC
 CCTGTGGAAGAACTTGAAGAGCATTGCAGAATTAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001146004

Insert Size: 1653 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<u>NM_001146004.1, NP_001139476.1</u>
RefSeq Size:	1807 bp
RefSeq ORF:	1653 bp
Locus ID:	316777
UniProt ID:	<u>Q5XHX6</u>
Cytogenetics:	9q37
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 (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).