

Product datasheet for **RN215283**

Txndc2 (NM_001005559) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Txndc2 (NM_001005559) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Txndc2
Synonyms:	MGC94320
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN215283 representing NM_001005559
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTGCTGTGAGACGCCCTCTGAGTTCTTGATACAGCCAGTCCAAAGAAAAAGTCATTGCTT
 CCGTGGTCGGCAACATGCTTCATATGTCCACAGAAGAGTCTGAGCCCCACAGCAGGTTAGTAGCACCTC
 CATGTTCTCAGAAAAACCATCTATCCCAACACGAAGGGAGCCCAAGTCTCAACAAAAAACAACCTCAG
 CTGAAACAGGAAGACATTTCTAAACCTCAAGCTACTCCAAGCAGACCAACTCTAGCAACATCCCAAGT
 CCTTGGCAATAACACCTATCCCAACAGGGGAGCACTCTCAAGCCTGCAGCAATGGTACCCATGACAG
 GGAGGCTGAAAGCCCAAGTCTCAGAAGACCTCATCCAATCCAAGAAAGGGGACATATTCAAGCCTTCA
 GAAGACTCCATCCAATCCAAGAAAGGGGACATGCCAAGTCTCAGAAGACCCCAATCCAAGAAAGG
 ATGACACGGCCAAGTCTTTAGAAGATACCATCCAATCCAAGAATGGGGACATGCCAAGTCTCAGAAGA
 CCCCATCCAATCCAAGAAAGGATGACACGGCCAGGTCTTTAGAAGATTCCATCCAATCCAAGAAAGGGGAC
 ATGCCCAAGTCTCAGACACCATTCAATCCAAGGAAAGCGAAACACCCCAAGTTCTTGCAGGACACCATCC
 AATCCAAGGGAGGTAAAAATCAACAAACAAGTGAAGACAGCATGAAGTCCAAGGAGAGTAAATTCGCAA
 GCCCTTGAAGACAGCATCCAGTCCAAGGAGAACAAAATCCCAAGTCTCAGGACTCCGCCAGCCT
 AAGGAGGGTAAAAATCCACAAGCCCTTAAAGACAGCCTCCCATCCAAGGAGGGAGATATCTTAAGCCCT
 CAGAAGACACCATCCAGGCCAAGGAAGAAATCACCGTGTCCCAGAAGACACCATCCAGGCCAAGGAAGA
 AATCACCATGTCCCAGAAGACACCATCCAGGCCAAGGAAGAAATCACCGTGTCCCAGAAGACACCATC
 CAGGCCAAGGAAGAAATCACCGTGTCCCAGAAGACACCATGCAGTCTAAGGAAGAAATCACCGTGTCCC
 CAGAAGACACAGTCCAGTCCCAGGAAGGTGACATCAAGTCTTCAAGACAGTGCAGCCCTCGGAGAACGA
 AATCTTCCCTTTTGAAGCAGAAATAGAGACCCTGGAGGAAGGCATGGTGAGAGTGATCAAAGACAAAGAA
 GAGTTTGAGGAGGTGCTCAAAGATGCTGGAGAGAAGCTGGTAGCTGTAGATTTCTCAGCCCTTGGTGTG
 GCCCTTGCAGAAAGATGAGGCCACACTTCCATTCCCTGTCTTTGAAGCATGAAGATGTGATATTCTTGA
 GGTGGATACTGAGGACTGTGAACAGCTGGTGCAAGACTGTGAGGTCTTCCACCTCCCGACTTTCCAGTTT
 TATAAAACGAAGAAAGGTGGGTGAATTTTCGGGTGCCCTTGTGGAAAACTTGAAAAGAGCATTGCAG
 AATTAAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001005559

Insert Size: 1551 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).

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_001005559.2, NP_001005559.2</u>
RefSeq Size:	1629 bp
RefSeq ORF:	1551 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 (2) differs in the 5' UTR and includes an alternate 5' coding region, compared to variant 1. The resulting isoform (2) has a distinct N-terminus and is shorter than isoform 1.