

Product datasheet for **MC218567**

Txndc2 (NM_001146002) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Txndc2
Synonyms:	AU021712; Sptrx-I; SptrxI; Trx4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>MC218567 representing NM_001146002
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAAACGACTCACTATAGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGACTTGGCCATAGAAGAAATGTTTAAGAAGGACAAACAAAAGAATAAGGACAAGGGCTGGACATGA
 ACAGTGTTCAGCAGGAGCTCCTGAAGAGTCGGACATGACACTCAACAACGGAGGAAAAGCAAATGAAAG
 GGGCAGCAACGAAAATCCATTACAGGCTTTATCAAAAATGAGGCTTTTCTGGTCCCAGAGTTCTTGGAT
 ACAGCCCAAGTCCAAAGAGAAGGCCATTGCTTCAAGGTCAGCAATACACTTCATATGTCACAGAAGAGT
 CTGAGTTCGCCGAGCAAGTTAGTAGCACCCCCATGTTTTCAGAGAATACCGTCCATCCCAGACATGAAGT
 TAGCCCCAAGCCTTCATCAAAAAACACTCAGCTGAAACAGGAAAAATTTTCTAAATCCTCGGGCTACTCC
 AAGCAGACCAACTATAGCAACACTCCCAAGTCCTTGGCAAAAACCCCATCCCAACAGGGGAGCACCC
 TCAAGCCTGCAACGAACAGCACCCATTACAGGGAGGATGACATTCCAAGTCCTCAGAAGACATCATCCA
 ACCCAAGAAAGGGGACAGGCCCAAGTCCTCAGAAGACATCATCCAATCCAAGAAAGAGGACAGGCCCAAG
 TCCTCAGAAGACATCATCCAATCCAAGAAAGAGGACAGGCCCAAGTCCTCAGAAGACATCATCCAATCCA
 AGAAAGAGGACAGGCCCAAGTCCTCAGAAGACATCATCCAATCCAAGAAAGAGGACAGGCCCAAGTCCTC
 AGAAGACATCATCAACCCAAGAAAGAGGACAGGCCCAAGTCCTCAGAAGACAGCGTCCCATCCAAGAAA
 GGGGACAGGCCCAAGTCCTCAGAAGACAGCGTCCAACCCAAGAAAGAGGACAGGCCCAAGTCCTCAGAAG
 ACAGCGTCCAATCCAAGGAAGGTGAAGTCCACAAGCCCTTAAAGACAGCATTCAAGTCCAAGGAGACTAA
 AGTCCCTAAGTCCACAGGACTCAATCCAGTCCAAAGAGGATAAAACCCACAGGCCCTTAAAGGACAGC
 GTTCAGTCAAAGGAGAGTGAAGAACCTAAGTCCTCCCATGAATCCATCCAGTCCAAGGAGGATAAAATCC
 ATAAGCCTTTAAAGATAGCATCCCATCTAAGGAGGAGATATCCCAAGTCCCAGAAGATACCATCCA
 GTCCCAGGAAGAAATCACCGCGTCCGAAGAAGACACCATCCAGTCCCAGGAAGGTAACACTATCAAGTCT
 TCAGAAGAAGATGTGCAGCTCTCAGAGAGCAAACTCTTAGGCCTTGGAGCAGAAATAGAGACCTTGGAGG
 AAGGCTTGGTGAGAGTGATCAAAGACAAGGAGGAATTTGAGGAGGTGCTCAAAGACGCTGGAGAGAAGCT
 GGTGGCTGTGGATTTCTCAGCCGCTTGGTGTGGCCCTGCAGAATGATGAAGCCACTCTTCCATTCCCTG
 TCTTTGAAGCACGAGGATGTGATATTCTTGGAGGTGGACACTGAGGATTGTGAGCAGCTGGTGCAAGACT
 GTGAGATCTTTACCTCCGACTTTCCAGTTTATAAAACGAAGAAAAGGTGGGTGAATTTCTGGTGC
 CCTTGTGGGAAACTCGAAGAAGCATTTCAGAATTAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001146002

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).

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_001146002.1, NP_001139474.1</u>
RefSeq Size:	1899 bp
RefSeq ORF:	1653 bp
Locus ID:	213272
UniProt ID:	<u>Q6P902</u>
Cytogenetics:	17 E1.1
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 (1) represents the longer transcript and encodes the longer isoform (1).