

Product datasheet for **MG208264**

Txndc2 (BC060981) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Txndc2 (BC060981) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Txndc2
Synonyms:	Trx4, Sptrx1, Sptrx-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208264 representing BC060981
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGACACTCAACAACGGAGGAAAAGCAAATGAAAGGGGCAGCAACGAAAATCCATTACAGGCTTTATCCA
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 GGACACTGAGGATTGTGAGCAGCTGGTGAAGACTGTGAGATCTTACCTCCGACTTTCCAGTTTTAT
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 TAAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

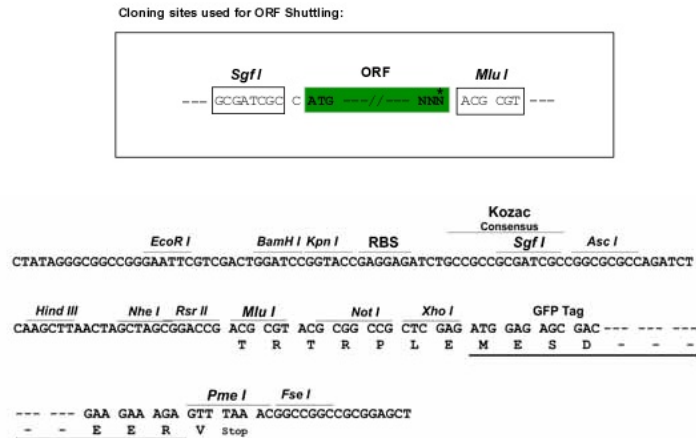
>MG208264 representing BC060981
 Red=Cloning site Green=Tags(s)

MTLNNGGKANERGSNENPLQALSKNEAFLVPEFLDTAQSKEKAIASKVSNTLHMSTEESEFPQQVSSTPM
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 PLKDSIQSKETKVPKSPQDSIQSKEDKTHRPLKDSVQSKESEEPKSSHESI QSKEDKIHKLKDSIPSKE
 GDIPKSPEDTIQSQEEITASEEDTIQSQEGNTIKSSEEDVQLSESKLLGLGAEIETLEGLVRVIKDKEE
 FEEVLKDAGEKL VAVDFSAAWCGPCRMKPLFHSLSLKHEDVIFLEVDTEDCEQLVQDCEIFHLPTFQFY
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TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

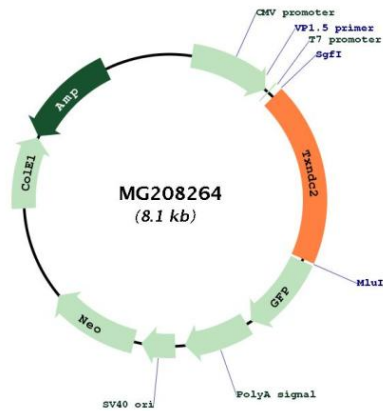
Cloning Scheme:


ACCN:	BC060981
ORF Size:	1545 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC060981 , AAH60981
RefSeq Size:	1891 bp
RefSeq ORF:	1547 bp
Locus ID:	213272

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]

Product images:



Circular map for MG208264