

Product datasheet for **SC118039**

TXN (NM_003329) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXN (NM_003329) Human Untagged Clone
Tag:	Tag Free
Symbol:	TXN
Synonyms:	TRDX; TRX; TRX1; Trx80
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118039 sequence for NM_003329 edited (data generated by NextGen Sequencing) ATGGTGAAGCAGATCGAGAGCAAGACTGCTTTTCAGGAAGCCTTGGACGCTGCAGGTGAT AAACTTGTAGTAGTTGACTTCTCAGCCACGTGGTGTGGGCCTTGCAAAATGATCAAGCCT TTCTTTCATTCCCTCTCTGAAAAGTATTCCAACGTGATATTCCTTGAAGTAGATGTGGAT GACTGTCAGGATGTTGCTTCAGAGTGTGAAGTCAAATGCATGCCAACATTCCAGTTTTTT AAGAAGGGACAAAAGGTGGGTGAATTTTCTGGAGCCAATAAGGAAAAGCTTGAAGCCACC ATTAATGAATTAGTCTAA Clone variation with respect to NM_003329.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003329 unedited
TACATTTTGTATACGACTCCTATAGGCGGCCGCAATTCGCACGAGGGTTTATAAAGGG
AGAGAGCAAGCAGCGAGTCTTGAAGCTCTGTTTGGTGCTTTGGATCCATTTCCATCGGTC
CTTACAGCCGCTCGTCAGACTCCAGCAGCCAAGATGGTGAAGCAGATCGAGAGCAAGACT
GCTTTTCAGGAAGCCTTGGACGCTGCAGGTGATAAACTTGTAGTAGTTGACTTCTCAGCC
ACGTGGTGTGGCCTTGCAAAATGATCAAGCCTTTCTTTCATTCCTCTCTGAAAAGTAT
TCCAACGTGATATTCCTTGAAGTAGATGTGGATGACTGTCAGGATGTTGCTTCAGAGTGT
GAAGTCAAATGCATGCCAACATTCCAGTTTTTTAAGAAGGGACAAAAGGTGGGTGAATTT
TCTGGAGCCAATAAGGAAAAGCTTGAAGCCACCATTAATGAATTAGTCTAATCATGTTTT
CTGAAAACATAACCAGCCATTGGCTATTTAAAACCTGTAATTTTTTTAATTTACAAAAAT
ATAAAATATGAAGACATAAACCCAGTTGCCATCTGCGTGACAATAAAACATTAATGCTAA
CACTTTNTTAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTCATAGCCTG
TTCCTGGACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCAGTGCCTCTCCTGCCCT
GGAGTTGCCACTCAGTGCCACCAGCCTGTCTATAAAAATAAATTGCATCATTTTGTCTG
ACTAGGTGGCCTTCTATATATTATGGGGTGGAGGGGGCTGTATGGACCCAGGGCCAGTTG
GGAAGACACCTGTAAGCCTGCGGGTCTATTGGGACCAACTGGAATGGCATGCCAAAAC
TGGCTACTGCATTTCCGCCTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003329 unedited
CCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTAAAAATGTTAGCATTAA
GTTTTATTGTACGCAGATGGCAACTGGGTTTATGTCTTCATATTTTATTTTTTGTA
TTAAAAAATTACAAGTTTTAAATAGCCAATGGCTGGTTATGTTTTAGAAAACATGATT
AGACTAATTCATTAATGGTGGCTTCAAGCTTTTCTTATTGGCTCCAGAAAATTCACCCA
CCTTTTGTCCCTTCTAAAAAAGTGAATGTTGGCATGCATTTGACTTCACACTCTGAAG
CAACATCTGACAGTCATCCACATCTACTTCAAGGAATATCACGTTGGAATACTTTTCAG
AGAGGGAATGAAAGAAAGGCTTGATCATTTTGAAGGCCACACCACGTGGCTGAGAAGT
CAACTACTACAAGTTTATCACCTGCAGCGTCAAGGCTTCTGAAAAGCAGTCTTGCTCT
CGATCTGCTTACCATCTGGCTGCTGGAGTCTGACGAGCGGCTGTAAGGACCGATGGAA
ATGGATCCAAAGCACAAACAGAGCTTCAAGACTCGCTGCTTCTCCTTTTATAAA
CCCTTGTGCCGAATTCGCGGTGCGCCTATAGTGAGTCGATTACAAAATCTGACGGTTC
ACTAAACGAGCTCTGCTTATATAGACCTCCCACCTACACGCTACCGCCCTTGTGCGTCA
ACGGGGCGGGTTTTTCCACCTTCTGGAACCCCTCGATTTTCTGCCCCACCAACCCC
CCTTGCCCCAATGGGGCGATACTTGGCAATCCCTTGACCAAACCCCTCCCCCCCC
TTTGTTTTTTCTGTTACCGTGTACCCTCGGCATAGGAAGACTAATCCTTCATGCACCTCC
ATTTAGCAATCCCCTAGGCTTTTTCTGGGATAACACCACTGGTCTATCTATCATAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_003329

Insert Size:

630 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [NM_003329.2](#), [NP_003320.2](#)

RefSeq Size: 508 bp

RefSeq ORF: 318 bp

Locus ID: 7295

UniProt ID: [P10599](#)

Cytogenetics: 9q31.3

Domains: thiored

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene acts as a homodimer and is involved in many redox reactions. The encoded protein is active in the reversible S-nitrosylation of cysteines in certain proteins, which is part of the response to intracellular nitric oxide. This protein is found in the cytoplasm. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).