

Product datasheet for **SC108227**

Thioredoxin 2 (TXN2) (NM_012473) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thioredoxin 2 (TXN2) (NM_012473) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thioredoxin 2
Synonyms:	COXPD29; MT-TRX; MTRX; TRX2; TXN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108227 sequence for NM_012473 edited (data generated by NextGen Sequencing)

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ATGGCTCAGCGACTTCTTCTGAGGAGGTTCTGGCCTCTGTCATCTCCAGGAAGCCCTCT
CAGGGTCAGTGGCCACCCCTCACTTCCAGAGCCCTGCAGACCCCAATGCAGTCCTGGT
GGCCTGACTGTAACACCCAACCCAGCCCGACAATATACACCACGAGGATCTCCTTGACA
ACCTTTAATATCCAGGATGGACCTGACTTTCAAGACCGAGTGGTCAACAGTGAGACCA
GTGGTTGTGGATTTCCACGCACAGTGGTGTGGACCCTGCAAGATCCTGGGGCCGAGGTTA
GAGAAGATGGTGGCCAAGCAGCACGGGAAGGTGGTGTGGCCAAGGTGGATATTGATGAC
CACACAGACCTCGCCATTGAGTATGAGGTGTCAGCGGTGCCACTGTGCTGGCCATGAAG
AATGGGGACGTGGTGGACAAGTTTGTGGGCATCAAGGATGAGGATCAGTTGGAGGCCTTC
CTGAAGAAGCTGATTGGCTGA
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Clone variation with respect to NM_012473.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012473 unedited
TACGACTCACTATAGCGGCCGCGAATCGGCACGAGGCTTGACAGGCAGGGAGGGCTAGG
CTGTGCATCCCTCCGCTCGCATTGCAGGGAGATGGCTCAGCGACTTCTTCTGAGGAGGTT
CCTGGCCTCTGTCTCCAGGAAGCCCTCTCAGGGTCAGTGGCCACCCCTCACTTCCAG
AGCCCTGCAGACCCACAATGCAGTCTGGTGGCCTGACTGTAACACCCAACCCAGCCCG
GACAATATACACCACGAGGATCTCCTTGACAACCTTTAATATCCAGGATGGACCTGACTT
TCAAGACCGAGTGGTCAACAGTGAGACACCAAGTGGTTGTGGATTTCCACGCACAGTGGTG
TGGACCTGCAAGATCCTGGGGCCGAGGTTAGAGAAGATGGTGGCCAAGCAGCACGGGAA
GGTGGTGTGGCCAAGGTGGATATTGATGACCACACAGACCTCGCCATTGAGTATGAGGT
GTCAGCGGTGCCACTGTGCTGGCCATGAAGAATGGGGACGTGGTGGACAAGTTTGTGGG
CATCAAGGATGAGGATCAGTTGGAGGCCTTCTGAAGAAGCTGATTGGCTGACAAGCAGG
GATGAGTCTGGTTCCCTTGCCCGCTGGGACCCCAATAGAACTCAGCCCTTCCATGCCA
GCCCTTCTGCTGCTCCCTCTGTCTGGCTCCTGGGGCCATGCTTAGAGCCAGGCTC
CAGCCCTGAGTGTTCAGCTGGCGGACTGCCACAGGGCCATCAGAGGATGGTGGTGC
TGCTGCTGATCCGGNGACCGCTGTCTTNCCTCCATACGCCTTTCATCCNTNCTTCTAGG
NNTATGNCAGTTCTCCAGAAGTGTGGCGAGAGCCTGGGCCACCCACAGCGTTCAGTC
AGCAGCCACCTTTGTCCTCATCTGTCCCTTCATCTGAAACTGTGCTGCTCGTTGCCAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012473 unedited
NNNNNNNNNNNNNAAAAANNNNAAAAAAACNNANATCCCCCCTTTGACTTTGGACCGCG
GNCCGCATACTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGACATTGCAGATGGTGCAGACC
CTTGCTTTATTTGTCTGACTTGTTCACAGTTCAGCCCCCTGCTCAGAAAACCCAGGGCCA
GCTAAGGAGAGGAGGAGGCACCTTGAGACTTCCGGAGTCGAGGCTCTCCAGGGTTCCCA
GCCCATCAATCATTTTCTGCACCCCTGCCTGGGAGGCAGCTCCCTGGGGGTGGGAATG
GGTGAAGTACAGGGGATTTCAAGTGTGGGACCCAGGGTCTGTTCTTACAGTAGGAGGTGGA
AGGGATGACTAAGTTCTTTATCAGACCTACAAAAATGAGATAATTAGATATTACTCT
CACTAGTTTGGGCTTCTTTTTTCTTTTTTCAAAAAACAGCAGCTGGAAAGAGAAAT
GTAGGTGGCAGACGAGCCAGGCACGAGGTTTTCAGATTGGAAGGGACCAAGATGAGGACCA
AGGTGTGGCTGCCTGACTAGGAACGCTGTGGGCTGGCCAGGCTCTCGCCACACATCCTG
GGAGAAGTCCATAGGCCTAGAAGGAGGGATGAAAGGCGTATGGGAGGGAAGACAGCGG
TCCCCGGATCAGCAGCAGCACCACCTCTGATGGCCCTGGGCAGTCCGCCAGCTCG
GAGCACTCAGGGCTGGAGCCTGGGCTCTAAGCATGGGCCCCAGNACCCGACAGGAGGAG
GCAACCAGAAAGCCTGGCATGGAAGGGCTGAGTTCTATTGGGTCCACGCGGCAAGGAAC
CAGNATTATCCCTGTTGTGAGCCATCAGCTTCTCAAGGAGCCCTCCACTGATC

Restriction Sites:

NotI-NotI

ACCN:

NM_012473

Insert Size:

1340 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: [NM_012473.3](#), [NP_036605.2](#)

RefSeq Size: 1342 bp

RefSeq ORF: 501 bp

Locus ID: 25828

UniProt ID: [Q99757](#)

Cytogenetics: 22q12.3

Domains: thiored

Protein Families: Druggable Genome

Gene Summary: This nuclear gene encodes a mitochondrial member of the thioredoxin family, a group of small multifunctional redox-active proteins. The encoded protein may play important roles in the regulation of the mitochondrial membrane potential and in protection against oxidant-induced apoptosis. [provided by RefSeq, Jul 2008]