

Product datasheet for **SC216896**

TXNRD1 (NM_182729) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	TXNRD1 (NM_182729) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	TXNRD1
Synonyms:	GRIM-12; TR; TR1; TRXR1; TXNR
ACCN:	NM_182729
Insert Size:	1916 bp



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Insert Sequence: >SC216896 3'UTR clone of NM_182729
The sequence shown below is from the reference sequence of NM_182729. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AGCATCCTCCAGGCTGGCTGCTGAGGTTAAGCCCCAGTGTGGATGCTGTTGCCAAGACTGCAAACCACT
GGCTCGTTTTCCGTGCCAAATCCAAGGCCAAGTTTTCTAGAGGGTTCTTGGGCTCTTGGCACCTGCGTG
TCCTGTGCTTACCACGCCCAAGGCCCTTGGATCTCTTGGATAGGAGTTGGTGAATAGAAGGCAGGC
AGCATCACACTGGGGTCACTGACAGACTTGAAGCTGACATTTGGCAGGGCATCGAAGGGATGCATCCAT
GAAGTCACCAGTCTCAAGCCCATGTGGTAGGCGGTGATGGAACAACGTCAAATCAGTTTTAGCATGAC
CTTTCCTGTGGATTTTTCTATTCTCGTTGTCAAGTTTTCTAGGGTTGAATTTTTCTTTTTCTCCA
TGGTGTTAATGATATTAGAGATAAAAACGTTAGCAGTTGATTTTTGTCCAAAAGCAAGTCATGGCTAG
AGTATCCATGCAAGGTGCTTGTGTCATGGAAGGATAGTTTGGCTCCCTTGGAGGCTATGTAGGCTTG
TCCCGGAAAGAGAAGTGTCTGCAAGTGAATGGACTGTTCTTACTGACCTGCTCAGCAGTTTTCTTC
TCTCATATATTCCAAAACAAGTACATCTGCGATCAACTCTAGCCAAATTTGCCCTGTGTGCTACATG
ATGGATGATTATTTTTAAGTCTGTTTAGGAAGGAAATGGCTACTTGGCCAGCCATTGCCTGGCAT
TTGGTAGTATAGTATGATTCTCACCATTATTTGTCATGGAGGCAGACATACACCAGAAATGGGGGAGAA
ACAGTACATATCTTTCTGCTTTAGTTTATTGTGTGCTGGTCTAAGCAAGCTGAGATCATTTGCAATGG
AAAACACGTAACCTGTTTAAAAGTTTTCTGGTAGCTTTAGCTTTATGCTAAAAAATAATGACATTG
GGTATCTATTTCTTTCTAAGACTACATTAGTAGGAAAATAAGTCTTTTCATGCTTATGATTTAGCTGTT
TTGTGGTAATTGCTTTTTAAAGGAAGTTATTAATATCATAAAGTTATTATTAATTTTTGAACACAGGTG
GATGTGAAGGATTTTCATTTAAAAACCAAGTGGTTTTGACTTTTTCTGTTGAATGAACAACGTGCCTT
GTGGAATTTTTGCAGAAGTGTATGCTTTGTTAGCATTTCAACTTGCATTATTATAAAGAGGATTAA
TGCCCTCAGTTATGTGTTGTCAATGTAAGTGGCTGAGGATTCTATCTCAGCTGTCTTTTCTAACTGTGA
GGTTGAGTTTTGAACACGTGCTTGTGGACATCAGGCCCTCCTGCCAGCAGTTCTTGAAGCTCTTTTTCA
TTCCTGCTACTCTACCTGTATTTCTCAGTTGCAGCACTGAGTGGTCAAAATACATTTCTGGGCCACCTC
AGGGAACCCATGCATCTGCCTGGCATTAGGCAGCAGAGCCCCTGACCGTCCCCACAGGGCTCTGCCT
CACGTCCTCATCTCATTGGCTGTGTAAGAAAATGGGAAAAGGGAAAAGGAGAGACAAATGAGGCAGT
TGACCATATTCAGTTTTATTTATTTTAAATTTGTTTTTTCTCAAGTCCACCAGTCTCTGAAAT
TAGAACAGTAGGCGGTATGAGATAATCAGGCCTAATCATGTTGTGATTCTTTTTCTTAGTGGAGTGGA
ATGTTCTATCCCCACAAGAAGGATTATATCTTATAGACTGTCTTGTTCAGATTCTGATTTACCCATT
TTATTGAAACATACTAAGTCCATGTATTTTTGTTACAAATCTTCTGAAAAAACAACAAATGTG
AAACATTAATAAAGGCATTAATAATCCACGTGTGCCTTCTTACTGAA
ACGCGT AAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCACCGCCGCTTCTATGAAAGG
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_182729.3](#)

Summary:

The protein encoded by this gene belongs to the pyridine nucleotide-disulfide oxidoreductase family, and is a member of the thioredoxin (Trx) system. Three thioredoxin reductase (TrxR) isozymes are found in mammals. TrxRs are selenocysteine-containing flavoenzymes, which reduce thioredoxins, as well as other substrates, and play a key role in redox homeostasis. This gene encodes an ubiquitously expressed, cytosolic form of TrxR, which functions as a homodimer containing FAD, and selenocysteine (Sec) at the active site. Sec is encoded by UGA codon that normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, the Sec insertion sequence (SECIS) element, which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Alternative splicing, primarily at the 5' end, results in transcript variants encoding same or different isoforms, including a glutaredoxin-containing isoform that is predominantly expressed in testis. [provided by RefSeq, May 2017]

Locus ID:

7296

MW:

73.1