

Product datasheet for **SC108544**

TXNL2 (GLRX3) (NM_006541) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNL2 (GLRX3) (NM_006541) Human Untagged Clone
Tag:	Tag Free
Symbol:	TXNL2
Synonyms:	GLRX4; GRX3; GRX4; PICOT; TXNL2; TXNL3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108544 sequence for NM_006541 edited (data generated by NextGen Sequencing)

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ATGGCGGGGGGGCGGCTGAGGCAGCTGTAGCGCCGTGGAGGAGTTCGGCTCAGCCGGG
CAGTTTGAGGAGCTGCTGCGCCTCAAAGCCAAGTCCCTCCTTGTGGTCCATTTCTGGCA
CCATGGGCTCCACAGTGTGCACAGATGAACGAAGTTATGGCAGAGTTAGCTAAAGAACTC
CCTCAAGTTTCATTTGTGAAGTTGGAAGCTGAAGGTGTTCTGAAGTATCTGAAAAATAT
GAAATTAGCTCTGTTCCCACTTTTCTGTTTTTCAAGAATTCTCAGAAAATCGACCGATTA
GATGGTGCACATGCCCCAGAGTTGACCAAAAAAGTTCAGCGACATGCATCTAGTGGCTCC
TTCCTACCCAGCGCTAATGAACATCTTAAAGAAGATCTCAACCTTCGCTTGAAGAAATTG
ACTCATGCTGCCCTGCATGCTTTTATGAAAGGAAGTCTCAAGAACCCAGCTGTGGT
TTCAGCAAGCAGATGGTGGAAATTTTCAAAAACATAATATTCAGTTTAGCAGTTTTGAT
ATCTTCTCAGATGAAGAGTTTCGACAGGGACTCAAAGCCTATTCCAGTTGGCCTACCTAT
CCTCAGCTCTATGTTTCTGGAGAGCTCATAGGAGGACTTGATATAATTAAGGAGCTAGAA
GCATCTGAAGAACTAGATACAATTTGTCCCAAAGCTCCCAAATTAGAGGAAAGGCTCAA
GTGCTGACAAATAAAGCTTCTGTGATGCTTTTATGAAAGGAAACAAACAGGAAGCAAAA
TGTGGATTCAGCAACAAATTTCTGAAATACTAAATAGTACTGGTGTGAATATGAAACA
TTCGATATATTGGAGGATGAAGAAGTTCGGCAAGGATTAAGGCTTACTCAAATTTGCCA
ACATACCTCAGCTGTATGTGAAAGGGGAGCTGGTGGGAGGATTGGATATTGTGAAGGAA
CTGAAAGAAAATGGTGAATTGCTGCCTATACTGAGAGGAGAAAAATTA

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Clone variation with respect to NM_006541.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006541 unedited</p> <pre> NGGGGCANCAANTTTTCCCNCCCCCGGTTAAATTTGTATACAATCATATAGCGGGCC GCGNAATTCGCACCAGGCATGGCGGGCGGGGCGGCTGAGGCAGCTGTAGCGGCCGTGGAG GAGGTCGGCTCAGCCGGGCAGTTTGAGGAGCTGCTGCGCCTCAAAGCCAAGTCCCTCCTT GTGGTCCATTTCTGGGCACCATGGGCTCCACAGTGTGCACAGATGAACGAAGTTATGGCA GAGTTAGCTAAAGAACTCCCTCAAGTTTCATTTGTGAAGTTGGAAGCTGAAGGTTCCT GAAGTATCTGAAAAATATGAAATTAGCTCTGTTCCCACTTTTCTGTTTTTCAAGAATTCT CAGAAAAATCGACCGATTAGATGGTGCACATGCCCCAGAGTTGACCAAAAAAGTTCAGCGA CATGCATCTAGTGCTCCTTCTACCCAGCGCTAATGAACATCTTAAAGAAGATCTCAAC CTTCGCTTGAAGAAATTGACTCATGCTGCCCCCTGCATGCTGTTTATGAAAGGAACTCCT CAAGAACCACGCTGTGGTTTCAGCAAGCAGATGGTGGAAATTCCTCACANACATAATATT CAGTTTAGCAGTNTGATATCTTCTCAGATGAAGAGGGTCGACAGGGACTCANAGCCTAT TCCAGTTGGCCTACCTATCCTCAGCTCTATGTTTCTGGAGAGCTNCATAGAGGACTTGAT ATAATAAGGAGCTAGAAGCATCTGAAGAACTAGATACCATNTGCCANAGCTCCCAAAN TAGAGGAAAAGCTCAAAGTGCTGACAAAATAAGCTTCTGTGATGCTCTTTTATGAAGGGA ACCAACNGAAGCAAAATTTGGATTGAGCAAAACCAATTCTGGAAANTACTAATAGTACTGG NNNGTGATATGAAACATTCGATTATTGGAGATGAANAAAGTCGCCAGGGATTNAAAGCTA CTCAAATGGCCACATACCCTCCCTGNATGTGAAAGGGNACTGNTGGGAGGATTGGATTT GTGAAGAACTGAAGAAATG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006541 unedited</p> <pre> AAAAACCTTTTTTTTTTAAATTTGAATTGTTTATTGCATTCTATTTTTGGTGGGGAAA AAAATGTAACATACATTTATTTAGCACGACATTGTGAAATACACAAAACATGTAAGTGG AAAGCAGGAATTTTCTATTCTAGTCCATTTCTGAGGACTAAATCATGAACTGCTCCCAT TGTAATTAATATTTCTTACAATAGTTGGGCACCAAGTTTAAAGATTTATTAATTTCTCC TCTCAGTATAGGCAGCAATTCACCATTTTCTTTCAGTTCCTTACAATATCCAATCCTCC CACCAGCTCCCCTTTCACATACAGCTGAGGGTATGTTGGCCAATTTGAGTAAGCTTTTAA TCCTTGCCGAACTTCTTCATCCTCCAATATATCGAATGTTTCATATTCAACACCAAGTACT ATTTAGTATTTCCAGAATTTGTTTGCTGAATCCACATTTTGCTTCCTGTTTGTTCCTTT CATAAAGAGCATCACAGAAGCTTTATTTGTCAGCACTTTGAGCCTTTCTCTAATTTGGG AGCTTTGGGACAAATTTGATCTAGTTCTTCAGATGCTTCTAGCTCCTTAATTATATCAAG TCCTCCTATGAGCTCTCCAGAAACATAGAGCTGAGGATAGGTAGGCCAACTGGAATANNG CTTGAGTCCCTGTGCAACCTCTTCATCTGAGAAGAATCAAACTGCTAAACTGAATATTA TGTTTGTGAAGAAATTTTACATCTGCCTGCTGAAAACACAGCGTGGGTCTTGAGGAGTT CCTTTCATAACAGCATGCAGGGGCAGCATGAGTCATTTCTTCAGCGAAAGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006541
Insert Size:	1250 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:	<ol style="list-style-type: none">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_006541.1 , NP_006532.1
RefSeq Size:	1942 bp
RefSeq ORF:	1008 bp
Locus ID:	10539
UniProt ID:	O76003
Cytogenetics:	10q26.3
Domains:	thioredoxin
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a member of the glutaredoxin family. Glutaredoxins are oxidoreductase enzymes that reduce a variety of substrates using glutathione as a cofactor. The encoded protein binds to and modulates the function of protein kinase C theta. The encoded protein may also inhibit apoptosis and play a role in cellular growth, and the expression of this gene may be a marker for cancer. Pseudogenes of this gene are located on the short arm of chromosomes 6 and 9. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Dec 2010]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.</p>