

Product datasheet for **SC112482**

NXN (NM_022463) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	NXN
Synonyms:	NRX; RRS2; TRG-4
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_022463, the custom clone sequence may differ by one or more nucleotides

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ATGTCGGGCTTCCTGGAGGAGCTGCTCGGCGAGAAGCTGGTGACGGGCGGCGGCGAGGAGGTGGACGTGC
ACTCGCTGGGCGCCCGCGGCATCTCGCTGCTGGGTCTCTACTTCGGCTGCAGCCTCAGCGCCCCCTGCGC
GCAGCTCAGCGCCAGCCTGGCCGCCTTCTACGGGCGCCTGCGGGGGGACGCGGCGGCCGGGCGGGGCGCG
GGAGCGGGGGCGGGGCGGCGGAGCCGAGCCGCGGCGGCGCCTGGAGATCGTCTTCGTGTCCTCGG
ACCAGGACCAGCGGAGTGGCAGGACTTCGTGCGGGACATGCCGTGGCTGGCGCTGCCCTACAAGGAGAA
GCACAGGAAGCTCAAACCTTTGGAACAAATACCGAATTTCCAACATTCATCACTAATATTCCTCGACGCC
ACCACTGGGAAGGTTGTGTGCAGGAACGGGCTGCTGGTGATCCGAGATGACCCAGAAGGTCTGGAGTTCC
CCTGGGACCGAAACCTTCAGGGAAGTCATTGCAGGGCCCTTGCTTAGAAACAATGGGCAGTCTCTGGA
GAGCAGCAGCCTGGAGGGTCTCACGTGGGCGTCTATTTCTCCGCACATTGGTGTCCGCCCTGCCGAAGC
CTCACCCGGGTCTGGTGGAATCCTACCGGAAGATCAAGGAGGCAGGCCAGAACTTCGAGATCATCTTCG
TTAGTCGACAGAGTTCGAGGAGTCTTCAAACAGTACTTCAGTGAGATGCCCTGGCTCGCCGTCGCCCTA
CACGGATGAGGCCCGGCGGTGCGCGCTCAACCGGCTGTACGGAATCCAAGGCATCCCCACGCTCATCATG
CTGGACCCGACGGGCGAGGTGATCACGCGGCAGGGGCGGGTGGAGGTGCTGAACGACGAGGACTGCCGGG
AGTTCCTTGGCACCCCAAGCCCGTCTGGAGCTCTCCGACTCCAACGCCGCGCAGCTTAACGAGGGGCC
CTGCCTCGTCTTTTGTAGATTCTGAGGATGACGGAGAGTCCGAGGCGGCCAAGCAGCTGATTACAGCCG
ATAGCTGAGAAAATCATTGCCAAGTACAAAGCCAAAGAGGAGGAGGCACCCCTTCTGTTCTTCGTAGCCG
GGGAGGATGACATGACTGACTCCCTGCGAGATTACACCAACCTGCCTGAGGCTGCCCTTTGCTCACCAT
CCTGGACATGTAGCCCGGGCCAAGTACGTGATGGACGTGGAGGAGATACCCCGCCATCGTGGAGGCC
TTTGTGAATGACTTCCTAGCAGAGAAGCTCAAACCGGAGCCATCTAG

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5' Read Nucleotide
Sequence:

>OriGene 5' read for NM_022463 unedited
 ATATCCCCGCCCGTTGNCGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGC
 AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCG
 AATTCCGGCACGAGGGTGTCTCGGACCAGGACCAGCGCAGTGGCAGGACTTCGTGCGGG
 ACATGCCGTGGCTGGCGTGCCTACAAGGAGAAGCACAGGAAGCTCAAACCTTTGGAACA
 AATACCGAATTTCCAACATTCCATCACTAATATTCCTCGACGCCACCACTGGGAAGGTTG
 TGTGCAGGAACGGGCTGCTGGTGATCCGAGATGACCCAGAAGGTCTGGAGTTCCTCTGGG
 GACCGAAACCTTCAGGGAAGTCATTGCAGGGCCCTTGCTTAGAAACAATGGGCAGTCTC
 TGGAGAGCAGCAGCCTGGAGGGGTCTCACGTGGGCGTCTATTTCTCCGCACATTGGTGTC
 CGCCCTGCCGAAGCCTCACCGGGTCTGGTGGAATCCTACCGGAAGATCAAGGAGGCAG
 GCCAGAACTTCGAGATCATCTTCGTAGTGACAGACAGGTGGAGGAGTCTTCAAACAGT
 ACTTCAGTGAGATGCCCTGGCTCGCGTCCCTACACGGATGANGCCCGCGGTGCGGCC
 TCAACCGGTGTACGGAATCCAAGGGCATCCACGCTCATCATGCTGGACCCGAGGGCG
 AGGTGATCANCGCAGGGGCGGNTGGAGGTGCTNGACGACGAGGACCTGCCGANTNCC
 CCTGCACCCCAAGCCGTGCTGGAGCTCTNCGACTCCAACGCCGNCAGNTAACGAGGG
 CCCCTGCCTCGTCTTTTGTAGATTCTGAGGATGACGANAGTCCCAGGGCGGCCAACAG
 CTGATTCAGCCGATAGCTGAGAAAATATT

3' Read Nucleotide
Sequence:

>OriGene 3' read for NM_022463 unedited
 GGTACTACTATGNACCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCCAAAAATGCCTGCTTTATTTCTAC
 GGGGGGATCCATTTTAGGCTGGGAACATCACATAACAAGTCTAATCGCCCACTAATTGT
 ACCCTCTGAACTACAAGTCAACAATCCCATTTAGCAAGGAACAACAGTGTCAACAGCTC
 ATTAACGGGGGGGACCCGATTTTCAAAACAATGGTCTTGGCTGGCAAAATGCTTAATG
 GGGCCGAATGAAAGAAGCTAAACCCCTTGGGCCAAACCTCCCTCCCAATCCTGAAAA
 CAAATTTGTCTGTTTTTTTTTTTGGGGTCAAGGCAACCCCAATAAAAAGCCACAACCTA
 CCTGGGCCATACAAGGGGAACAAGGGCACCCCTGGGTGAAGCGCCCTTCACCTTAA
 TTCATTCCGGGGGACAAATTTCTTCGCTGGTGCCTAAGAAAAAGCGAAGCCTCTGGGAAA
 TTCTCATCCTTGGAATTCTGCCTTGAATAAAAAAAGGGGGCCGGGACCGGGGCGTAAACC
 TGTTATTCAACCCCTTGAAGCCCAAGCGGGTGATTACCGAAGGTCAGGATTTTCAAG
 ACCCCCTGGCAAAATGTGAACCCCGTCTTTCTTAAATTCAAAATTCCTCCGTCGGG
 GGGCGGGGCTGAATCCCACTTCTCGGAGGCTGGGCGGGGAATAACTTTAACCTTGG
 TGCCGAGTTTAAATAACCACAAAGGGGCCCTGCGCTCCAACCTGGGGAAAAACAAGAT
 CCCTTTTCAAAAAAATAATAAAGGGATGGCCGGGGGATCCAACCTGGCGCGGGCGC
 CCCTTCACAAAATAAGG

Restriction Sites:

NotI-NotI

ACCN:

NM_022463

Insert Size:

2800 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_022463.2 , NP_071908.1
RefSeq Size:	3024 bp
RefSeq ORF:	3024 bp
Locus ID:	64359
UniProt ID:	Q6DKJ4
Cytogenetics:	17p13.3
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes a member of the thioredoxin superfamily, a group of small, multifunctional redox-active proteins. Members of this family are characterized by a conserved active motif called the thioredoxin fold that catalyzes disulfide bond formation and isomerization. The encoded protein acts a redox-dependent regulator of the Wnt signaling pathway and is involved in cell growth and differentiation. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.