

## Product datasheet for **SC317708**

### **NXN (NM\_022463) Human Untagged Clone**

#### Product data:

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	NXN
<b>Synonyms:</b>	NRX; RRS2; TRG-4
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-Entry (PS100001)
<b>E. coli Selection:</b>	Kanamycin (25 ug/mL)
<b>Fully Sequenced ORF:</b>	>SC317708 representing NM_022463. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCGGGCTTCTGGAGGAGCTGCTCGGCGAGAAGCTGGTGACGGGCGCGCGGAGGAGGTGGACGTG
CACTCGCTGGGCGCCCGCGGCATCTCGCTGCTGGGTCTCTACTTCGGCTGCAGCCTCAGCGCCCCCTGC
GCGCAGCTCAGCGCCAGCCTGGCCGCTTCTACGGGCGCTGCGGGGGGACGCGGCGCCGGCCGGGG
CCGGGAGCGGGGGCCGGGGCGGCGGAGCCGAGCCGCGGCGCGCTGGAGATCGTCTTCGTGTCC
TCGGACCAGGACCAGCGCAGTGCCAGGACTTCGTGCGGGACATGCCGTGGCTGGCGCTGCCCTACAAG
GAGAAGCACAGGAAGCTCAAACCTTTGGAACAAATACCGAATTTCCAACATTCCATCACTAATATTCCTC
GACGCCACCACTGGGAAGTTGTGTGACAGGAACGGGCTGCTGGTGATCCGAGATGACCCAGAAGGTCTG
GAGTTCCTTGGGGACCGAAACCTTCAGGGAAGTCATTGACGGGCCCTTGCTTAGAAACAATGGGCAG
TCTCTGGAGAGCAGCAGCCTGGAGGGTCTCACGTGGCGTCTATTCTCCGCACATTGGTGTCGCCCC
TGCCGAAGCCTCACCCGGGTCTGGTGGAATCCTACCGGAAGATCAAGGAGGCAGGCCAGAACTTCGAG
ATCATCTTCGTTAGTGCAGACAGGTCGGAGGAGTCCTTCAAACAGTACTTCAGTGAGATGCCTGGCTC
GCCGTCCCCTACACGGATGAGGCCCGGGCGGTGCGCGCTCAACCGGCTGTACGGAATCCAAGGCATCCCC
ACGCTCATCATGCTGGACCCGAGGGCGAGGTGATCACGCGCAGGGCGGGTGGAGGTGCTGAACGAC
GAGGACTGCCGGGAGTTCCCCTGGCACCCCAAGCCCGTGTGGAGCTCTCCGACTCCAACGCCGCGCAG
CTTAACGAGGGCCCTGCCTCGTCTTTTGTAGATTCTGAGGATGACGAGAGTCCGAGGCGGCCAAG
CAGCTGATTACGCCGATAGCTGAGAAAATCATTGCCAAGTACAAAGCCAAAGAGGAGGAGGCACCCCTT
CTGTTCTTCGTAGCCGGGAGGATGACATGACTGACTCCCTGCGAGATTACCAACCTGCCTGAGGCT
GCCCCCTTGTCTACCATCCTGGACATGTCAGCCCGGGCCAAGTACGTGATGGACGTGGAGGAGATCACC
CCCGCCATCGTGGAGGCCCTTTGTGAATGACTTCCTAGCAGAGAAGCTCAAACCGGAGGCCATCTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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<b>Restriction Sites:</b>	Sgfl-MluI
<b>ACCN:</b>	NM_022463
<b>Insert Size:</b>	1308 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_022463.4</a>
<b>RefSeq Size:</b>	3024 bp
<b>RefSeq ORF:</b>	1308 bp
<b>Locus ID:</b>	64359
<b>UniProt ID:</b>	<a href="#">Q6DKJ4</a>

**Cytogenetics:** 17p13.3

**Protein Families:** Druggable Genome

**MW:** 48.4 kDa

**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.