

Product datasheet for RC221343

NXN (NM_022463) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NXN (NM_022463) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: NXN

Synonyms: NRX; RRS2; TRG-4

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

OriGene Technologies, Inc.

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ORF Nucleotide Sequence:

>RC221343 representing NM_022463
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTCGGGCTTCCTGGAGGAGCTGCTCGGCGAGAAGCTGGTGACGGCGGCGGCGAGGAGGTGGACGTGC ACTCGCTGGGCGCCCGCGGCATCTCGCTGCTGGGTCTCTACTTCGGCTGCAGCCTCAGCGCCCCCTGCGC GCAGCTCAGCGCCAGCCTGGCCGCCTTCTACGGGCGCCTGCGGGGGGGACGCGGGCCGGGCCGGGCCG GGAGCGGGGCCGGGCGGCGGAGCCCGAGCCGCGCGCGCCTGGAGATCGTCTTCGTGTCCTCGG ACCAGGACCAGCGGCAGTGGCAGGACTTCGTGCGGGACATGCCGTGGCTGCCCTACAAGGAGAA GCACAGGAAGCTCAAACTTTGGAACAAATACCGAATTTCCAACATTCCATCACTAATATTCCTCGACGCC ACCACTGGGAAGGTTGTGCAGGAACGGGCTGCTGGTGATCCGAGATGACCCAGAAGGTCTGGAGTTCC CCTGGGGACCGAAACCCTTCAGGGAAGTCATTGCAGGGCCCTTGCTTAGAAACAATGGGCAGTCTCTGGA GAGCAGCAGCCTGGAGGGGTCTCACGTGGGCGTCTATTTCTCCGCACATTGGTGTCCGCCCTGCCGAAGC TTAGTGCAGACAGGTCGGAGGAGTCCTTCAAACAGTACTTCAGTGAGATGCCCTGGCTCGCCGTCCCCTA CACGGATGAGGCCCGGCGGTCGCGCCTCAACCGGCTGTACGGAATCCAAGGCATCCCCACGCTCATCATG CTGGACCCGCAGGGCGAGGTGATCACGCGGCAGGGGCGGGTGGAGGTGCTGAACGACGACGACTGCCGGG AGTTCCCCTGGCACCCCAAGCCCGTGCTGGAGCTCTCCGACTCCAACGCCGCGCAGCTTAACGAGGGCCC CTGCCTCGTCCTTTTTGTAGATTCTGAGGATGACGGAGAGTCCGAGGCGGCCAAGCAGCTGATTCAGCCG ATAGCTGAGAAAATCATTGCCAAGTACAAAGCCAAAGAGGAGGAGGCACCCCTTCTGTTCTTCGTAGCCG CCTGGACATGTCAGCCCGGGCCAAGTACGTGATGGACGTGGAGGAGATCACCCCCGCCATCGTGGAGGCC TTTGTGAATGACTTCCTAGCAGAGAAGCTCAAACCGGAGCCCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221343 representing NM_022463 Red=Cloning site Green=Tags(s)

MSGFLEELLGEKLVTGGGEEVDVHSLGARGISLLGLYFGCSLSAPCAQLSASLAAFYGRLRGDAAAGPGP GAGAGAAAEPEPRRRLEIVFVSSDQDQRQWQDFVRDMPWLALPYKEKHRKLKLWNKYRISNIPSLIFLDA TTGKVVCRNGLLVIRDDPEGLEFPWGPKPFREVIAGPLLRNNGQSLESSSLEGSHVGVYFSAHWCPPCRS LTRVLVESYRKIKEAGQNFEIIFVSADRSEESFKQYFSEMPWLAVPYTDEARRSRLNRLYGIQGIPTLIM LDPQGEVITRQGRVEVLNDEDCREFPWHPKPVLELSDSNAAQLNEGPCLVLFVDSEDDGESEAAKQLIQP IAEKIIAKYKAKEEEAPLLFFVAGEDDMTDSLRDYTNLPEAAPLLTILDMSARAKYVMDVEEITPAIVEA FVNDFLAEKLKPEPI

THUI ENERGIA EL I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

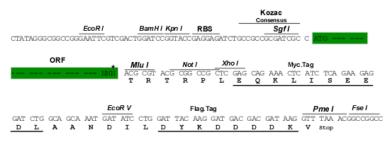
Chromatograms: https://cdn.origene.com/chromatograms/mk8042 e09.zip

Restriction Sites: Sgfl-Mlul



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_022463

ORF Size: 1305 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. <u>More info</u>

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

RefSeg: NM 022463.5



 RefSeq Size:
 3004 bp

 RefSeq ORF:
 1308 bp

 Locus ID:
 64359

 UniProt ID:
 Q6DKJ4

 Cytogenetics:
 17p13.3

Protein Families: Druggable Genome

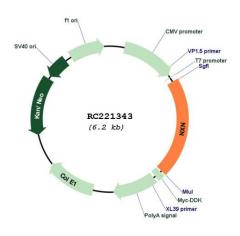
MW: 48.2 kDa

Gene Summary: This gene encodes a member of the thioredoxin superfamily, a group of small,

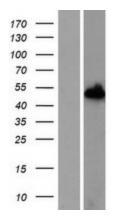
multifunctional redox-active proteins. Members of this family are characterized by a

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]

Product images:

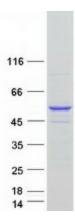


Circular map for RC221343



Western blot validation of overexpression lysate (Cat# [LY411678]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221343 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified NXN protein (Cat# [TP321343]). The protein was produced from HEK293T cells transfected with NXN cDNA clone (Cat# RC221343) using MegaTran 2.0 (Cat# [TT210002]).