

Product datasheet for **RC224445**

Nexilin (NEXN) (NM_144573) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Nexilin
Synonyms:	CMH20; NELIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224445 representing NM_144573
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAATGATATTTCCAAAAGGCTGAGATTCTGCTTTCTTCATCTAAACCTGTCCAAAAACCTATGTAC
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 GAAGAAGGTAGCATCATGAATGGCTCCACTGCTGAAGATGAAGAGCAAAACAGATCAGGAGCTCCATGGT
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Protein Sequence: >RC224445 representing NM_144573
 Red=Cloning site Green=Tags(s)

MNDISQKAEILLSSSKVPKTYVPKLGKGDVVDKFEAMQRAAREERNQRRSRDEKQRRKEQYIREREWNRR
 KQEIKEMLASDDEEDVSSKVEKAYVPKLTGTVKGRFAEMEKQREEQRKRTEERKRRIEQDMLKRIQ
 RELAKRAEQIEDINNTGTESASEEGDSSLITVVPVKSYSKSGMKKNFEDLEKEREKERIKYEEDKRI
 RYEEQRPSSLKEAKCLSLVMDDEIESEAKKESLSPGKLKLTFEELERQRQENRKKQAEERARKLEEEKRA
 FEEARRQMVNEEDENQDTAKIFKGYRPGKLKLSFEEMERQREDEKRAAEERARRIEEEKKAFAEARRN
 MVVDDDSPMYKTIQSDFLTPGKLEINFEELLKQKMEEEKRRTEERKHKLEMEKQEFELRQEMGEEEE
 ENETFGLSREYEELIKLRSGSIQAKNLKSKFEKIGQLSEKIQKKIEERARRRAIDLEIKEREAEENFH
 EEDDVDPARKSEAPFTHKVNMAKFEQMAKAREEEEEQRRIEEQKLLRMQFEQREIDAALQKKREEEEE
 EEGSIMNGSTAEDDEQTRSGAPWFKPLKNTSVVDSEPVRFVTKVTGEPKPEITWWFEGEILQDGEDYQY
 IERGETYCLYLPETFPEDGGEYMCKAVNNKGSAASTCILTIESKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8043_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144573

ORF Size: 2025 bp

OTI Disclaimer: 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](#)

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_144573.4](#)

RefSeq Size: 3405 bp

RefSeq ORF: 2028 bp

Locus ID: 91624

UniProt ID: [Q0ZGT2](#)

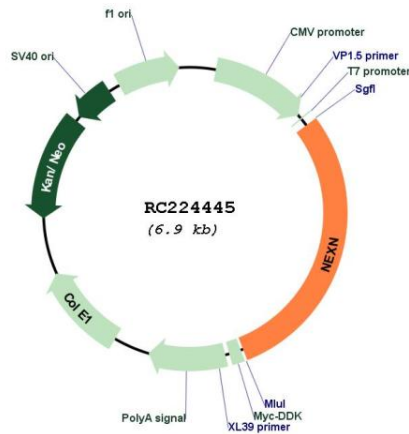
Cytogenetics: 1p31.1

Protein Families: Druggable Genome

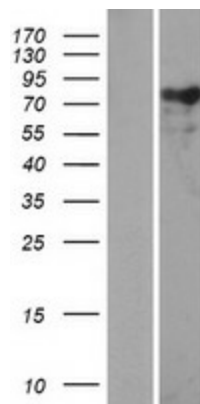
MW: 80.5 kDa

Gene Summary: This gene encodes a filamentous actin-binding protein that may function in cell adhesion and migration. Mutations in this gene have been associated with dilated cardiomyopathy, also known as CMDICC. Alternatively spliced transcript variants have been described.[provided by RefSeq, Feb 2010]

Product images:



Circular map for RC224445



Western blot validation of overexpression lysate (Cat# [LY408281]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224445 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).