

Product datasheet for **RC213899**

Nesprin 2 (SYNE2) (NM_182913) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nesprin 2 (SYNE2) (NM_182913) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nesprin 2
Synonyms:	EDMD5; KASH2; Nesp2; Nesprin-2; NUA; NUANCE; SYNE-2; TROPH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC213899 representing NM_182913
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGACCCAGAGAAATCCAGACTGATTCTTGGCGTAAACGGGGAGAGAGCGAGGAACCGTCATCTC
 CTCAGTCCCTGTGCATCTAGTGGCCCCAGGGCAGAGCGGTCTGGCTGCGAGACCCCTGTCAGCGTGGA
 CTCATCCCCCTGGAGTGGGACACACAGGCGACGTGGGGGCTCCTCCTCACGAAGAGGACGAGGAG
 GGCCATACTACAGCGCACTGTCAGATGTAGAAATCCCTGAAAATCCTGAGGCATATCTTAAATGACCA
 CAAAACTTTGAAAGCGTCTTCTGGTAAATCCATTTGGATGGCCACTCGTGGCATGTTCCCGACAGCCC
 TTCCTGTCCCGAGCATCACTACAAGCAAATGGAAGGTGACAGGAATGTTCCACCTGTTCCCCCTGCGTCC
 AGCACCCCTTATAAACACCCTATGAAAGCTACTATTACCTCCAGGCACGGATGGTGGCAAAGAAGGCC
 CGCGAGTCTGAATGGCAACCCACAGCAGGAAGACGGGGACTGGCCGGTATCACAGAGCAGCAGTCAGG
 TGCCCTTCGACAGATGGGAGATGATTCAAGCACAGGAGCTTCAACAATAAGCTCAAAATAAAACAAATTTG
 CAACAGCTGAACCTGATATCAGCGCCATCACTACTTGGCTGAAAAAACTGAAGCAGAGCTGGAATGT
 TAAAGATGGCAAAGCCTCCCTCTGATATCCAGGAAATAGAACTGAGAGTGAAGAGACTGCAGGAGATACT
 GAAAGCCTTTGACACTTACAAGGCATTAGTGGTCTCTGTCAACGTGAGCAGCAAGGAATTTCTGCAAACC
 GAGAGCCCCGAATCCACAGAGCTCCAAAGTAGACTCCGCCAGCTGAGCCTGCTCTGGGAAGCAGCACAGG
 GCGCAGTGGACAGCTGGAGAGGGGGCTTACGACAGTGCCTCATGCAGTCCAGGGCTCTAAGACACGGCC
 GCGCTCTGATGTGTTGTTTTAAAGGACTTCCACCAGTTGAGTCAAAATCTGCTGCTGTGGTTAGCGAGT
 GCCAAGAACCAGGAGCAGAAGGCTCATGTCACCGATCCAAAGGCAGACCCCGGGCTCTCCTAGAGTGTG
 GGAGGAACTAATGCAACTGAAAAGGAGCTGGTAGAAGCTCAACCTCAAGTGGACATGTTACAGGAGAT
 TTCAAACAGCCTTCTCATTAAAGGGACATGGAGAAGACTGTATTGAAGCTGAAGAAAAGGTGCATGTTATT
 GAGAAGAACTCAACAGTTACGGGAGCAAGTGTCCCAAGATTTAATGGCCTTGCAGGAAACCCAGAACC
 CAGCCTCACCCCTGCCAGCTTCGACGAGGTAGACTCGGGGGACAGCCTCCTGCAACATCCGTGCCAGC
 TCCCCGAGCAAAGTTCAGAGCAGTGAAGTACAGAAGGCGAGGAGGAGACAGAGAGCAGGGTCCCCGGC
 AGCACACGGCCACAGCGCTCCTTCTCAAGGGTGGTCCGGGCAGCCCTACCCCTGCAGCTGCTCCTCC
 TGCTGCTGCTCCTGGCTGCCTGCTGCCCTCCTCCGAAGAAGACTACAGCTGCACTCAGGCCAACAA
 CTTTGCCCGTCTTTTACCCATGCTGAGGTACACCAATGGGCCACCCCCACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213899 representing NM_182913
 Red=Cloning site Green=Tags(s)

MEDPREIQTDSWRKRGESEEPSSPQSLCHLVAPGHERSGCETPVSVDSIPLEWDHTGDVGGSSSHEEDEE
 GPYYALS DVEIPENPEAYLKMTTKLKAASSGKISDGHSHWVPDPSPCPEHHYKQMEGDRNVPPVPPAS
 STPYKPPYKLLLPDGGKEGPRVLNPNQEDGGLAGITEQQSGAFDRWEMIQAQELHNKLIKQNL
 QQLNSDISAITTWLKKTEAELEMLKMAKPPSDIQEIELRVKRLQEILKAFDTYKALVSVNVSSKEFLQT
 ESPESTELQSRLRQLSLLWEAQGAVDSWRGGLRQSLMQCQGSKTRPRSDVLFKDFHQLSQNLLWLAS
 AKNRRQKAHVTDPKADPRALLECRRELMLQLEKELVERQPQVDMLQEISNLLIKGHGEDCIEAEEKVHVI
 EKKLKQLREQVSDLMALQGTQNPASPLPSFDEVDSGDQPPATSVAPRAKFRVVRTTEGEEETESRVPG
 STRPQRSFLSRVVRAALPLQLLLLLLLLLLACLPSSEEDYSCTQANNFARFYPMLRYTNGPPPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6708_b07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_182913

ORF Size: 1665 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.

RefSeq: [NM_182913.3](#)

RefSeq Size: 2712 bp

RefSeq ORF: 1671 bp

Locus ID: 23224

UniProt ID: [Q8WXH0](#)

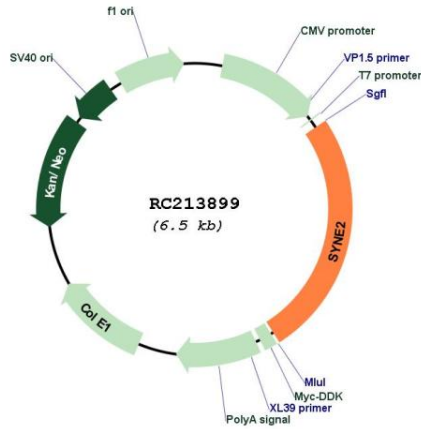
Cytogenetics: 14q23.2

Protein Families: Druggable Genome, Transcription Factors

MW: 62 kDa

Gene Summary: The protein encoded by this gene is a nuclear outer membrane protein that binds cytoplasmic F-actin. This binding tethers the nucleus to the cytoskeleton and aids in the maintenance of the structural integrity of the nucleus. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RC213899