

Product datasheet for **SC107647**

Nesprin 2 (SYNE2) (NM_182913) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nesprin 2 (SYNE2) (NM_182913) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nesprin 2
Synonyms:	EDMD5; KASH2; Nesp2; Nesprin-2; NUA; NUANCE; SYNE-2; TROPH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC107647 sequence for NM_182913 edited (data generated by NextGen Sequencing)

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ATGGAAGACCCCAGAGAAATCCAGACTGATTCTTGGCGTAAACGGGGAGAGAGCGAGGAA
CCGTCATCTCCTCAGTCCCTGTGCATCTAGTGGCCCCAGGGCACGAGCGGTCTGGCTGC
GAGACCCTGTACGCGTGGACTCCATCCCCCTGGAGTGGGACCACACAGGCGACTGGGG
GGCTCCTCCTCACGAAGAGGACGAGGAGGGCCATACTACAGCGCACTGTCAGATGTA
GAAATCCCTGAAAACTTGAGGCATATCTTAAAAATGACCACAAAACTTTGAAAGCGTCT
TCTGGTAAATCCATTTCCGATGGCCACTCGTGGCATGTTCCCGACAGCCCTTCTGTCCC
GAGCATCACTACAAGCAAATGGAAGGTGACAGGAATGTTCCACCTGTTCCCCCTGCGTCC
AGCACCCCTTATAAACCACCCTATGAAAAGCTACTATTACCTCCAGGCACGGATGGTGGC
AAAGAAGGCCCGGAGTCTGAATGGCAACCCACAGCAGGAAGACGGGGGACTGGCCGT
ATCACAGAGCAGCAGTCAAGTGCCTTCGACAGATGGGAGATGATTCAAGCACAGGAGCTT
CACAATAAGCTCAAAATAAAACAAAATTTGCAACAGCTGAACTCTGATATCAGCGCCATC
ACTACTTGGCTGAAAAAACTGAAGCAGAGCTGAAAATGTTAAAGATGGCAAAGCCTCCC
TCTGATATCCAGGAAATAGAAGTGAAGTGAAGAGACTGCAGGAGATACTGAAAGCCTTT
GACACTTACAAGGCATTAGTGGTCTCTGTCAACCTGAGCAGCAAGGAATTTCTGCAAACC
GAGAGCCCCGAATCCACAGAGCTCCAAAGTAGACTCCGCCAGCTGAGCCTGCTCTGGGAA
GCAGCACAGGGCGCAGTGGACAGCTGGAGAGGGGGCTTACGACAGTGCCTCATGCAGTGC
CAGGGCTTAAGACACGGCCGCGCTCTGATGTGTTGTTTTTAAGGACTTCCACCAGTTG
AGTCAAAATCTGCTGCTGTGTTAGCGAGTGCCAAGAACCGGAGGCAGAAAGGCTCATGTC
ACCGATCCAAAGGCAGACCCCGGGCTCTCCTAGAGTGTCCGAGGGAATTAATGCAACTG
GAAAAGGAGCTGGTAGAAGCTCAACCTCAAGTGGACATGTTACAGGAGATTTCAAACAGC
CTTCTCATTAAGGGACATGGGAAGACTGTATTGAAGTGAAGAAAAGGTGCATGTTATT
GAGAAGAAAACCAAAACAGTTACGGGAGCAAGTGTCCCAAGATTTAATGGCCTTGCAGGGA
ACCCAGAACCAGCCTCACCCCTGCCAGCTTCGACGAGGTAGACTCGGGGGACAGCCT
CCTGCAACATCCGTGCCAGCTCCCCGAGCAAAGNAGTTTACAGCAGTGAAGAACTACAGAA
GGCGAGGAGGAGACAGAGAGCAGGGTCCCCGGCAGCACACGGCCACAGCGCTCCTTCTC
TCAAGGGTGGTCCGGGCAGCCCTACCCCTGCAGCTGCTCCTCTGCTGCTGCTGCTCCTG
GCCTGCCTGCTGCCCTCCTCCGAAGAAGACTACAGCTGCACTCAGGCCAACAACTTTGCC
CGGTCCTTTACCCCATGCTGAGGTACACCAATGGGCCACCCCCACATAG
    
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Clone variation with respect to NM_182913.2
1414 c=>n

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_182913 unedited
CAGACTTTTCTATAGGGCGGCACGCGCATTCCGGCACGAGGGTGGTTTAGGGCTTGAAGA
TGAAAAGGAGGCCTCTGAGAATGAAACAGACATGGAAGACCCCGAGAGAAATCCAGACTGA
TTCTTGGCGTAAACGGGGAGAGAGCGAGGAACCGTCATCTCCTCAGTCCCTGTGCATCT
AGTGGCCCCAGGGCACGAGCGGTCTGGCTGCGAGACCCCTGTCAGCGTGGACTCCATCCC
CCTGGAGTGGGACCACACAGGCGACGTGGGGGGCTCCTCCTCTCACGAAGAGGACGAGGA
GGGCCATACTACAGCGCACTGTCAGATGTAGAAAATCCCTGAAAACTCTGAGGCATATCT
TAAATGACCACAAAACTTTGAAAGCGTCTTCTGGTAAATCCATTTCCGATGGCCACTC
GTGGCATGTTCCCGACAGCCCTTCTGTCCCGAGCATCACTACAAGCAAATGGAAGGTGA
CAGGAATGTTCCACCTGTTCCCTGCGTCCAGCACCCCTTATAAACCACCTATGGAAA
GCTACTATTACCTCCAGGCACGGATGGTGGCAAAGAAGGCCCGGAGTCTGAATGGCAA
CCACAGCAGGAAGACGGNGGACTGGCCGGTATCACAGAGCAGCAGTCAAGTGCCTTCGA
CAGATGGGGAGATGATTCAAGCACAGGAGCTTCAAAATAGCTCANAATAAAACAAAATTT
CTGCACAGCTGAACTCTGATATCAGCGCCATCACTACTTGGGCTGAANAAAATGAAAGCA
GAGCTGGGAATGGCTTAAGATGGCAAAGCCTCCCTCTGATATCCAGGAATAGATCTGAAA
GTGAAGAGACTGCAGGAGATACTGGAAGCCCTTGACACTTACAGGACTTTANTGGGTCTC
TGCCAACGCGAGCAGCNAGGGAATTTGCAAACCGAGAGGCCCGNATCACAGAGCTNCAA
ATANACTCCGCCAGCTGACCTGCTTTGGAATCAACCAGGCCCCATGGCACCTGGAG
    
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Restriction Sites:	NotI-NotI
ACCN:	NM_182913
Insert Size:	2550 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_182913.1 , NP_878917.1
RefSeq Size:	2712 bp
RefSeq ORF:	1671 bp
Locus ID:	23224
UniProt ID:	Q8WXH0
Cytogenetics:	14q23.2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and coding sequence compared to variant 5. The resulting isoform (4) is shorter at the N-terminus compared to isoform 5.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>