

Product datasheet for **SC100551**

Nesprin 1 (SYNE1) (NM_133650) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nesprin 1 (SYNE1) (NM_133650) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nesprin 1
Synonyms:	8B; ARCA1; C6orf98; CPG2; dj45H2.2; DKFZp781J13156; EDMD4; FLJ30878; FLJ41140; KIAA0796
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_133650, the custom clone sequence may differ by one or more nucleotides

```

ATGGGAGAACGACTTGCTAAAGCCAGCCATGAAAGCAAAGCATCTGAGATTGAATACAAGCTGGGAAAGG
TCAACGACCGGTGGCAGCATCTCCTGGACCTCATTGCAGCCAGGGTGAAGAAGCTGAAGGAGACCCCTGGT
AGCCGTGCAGCAGCTTGATAAAGAACATGAGCAGCCTGAGGACCTGGCTCGCTCACATCGAGTCAGAGCTG
GCCAAGCCAATAGTCTACGATTCTGAACTCGGAAGAAATACAGAGAAAGCTTAATGAGCAGCAGGAGC
TTCAGAGAGACATAGAGAAGCACAGTACAGGTGTTCATCTGTCCTCAACCTGTGTGAAGTCTGTGCA
CGACTGTGACGCCTGTGCCACTGATGCCAGTGTGACTCTATACAGCAGGCTACGAGAAACCTGGACCGG
CGGTGGAGAAACATTTGTGCTATGTCCATGAAAGGAGGCTGAAAATCGAAGAGACGTGGCGATTGTGGC
AGAAATTTCTGGATGACTATTCACGTTTTGAAGATTGGCTGAAGTCTTCAGAAAGGACAGCTGCTTTTCC
CAGCTCTTCTGGGTGATCTATACAGTTGCCAAGGAAGAACTAAAGAAATTTGAGGCTTCCAGCGACAG
GTCCACGAGTGCCTGACGCAGCTGGAAGTATCAACAAGCAGTACCGCCGCTGGCCAGGGAGAACCACA
CTGATTCAGCATGTAGCCTCAAACAGATGGTTCACGAAGCAACCAGAGATGGGACAACCTGCAAAAAGCG
TGTACCTCCATCTTGCCAGACTCAAGCATTTTATTGGCCAGCGTGAGGAGTTTGAGACTGCGCGGGAC
AGCATTCTGGTCTGGCTCACAGAGATGGATCTGCAGCTACTAATATTGAACATTTTTCTGAGTGTGATG
TTCAAGCTAAAATAAAGCAACTCAAGGCCTTCCAGCAGGAAATTTCACTGAACCAATAAGATTGAGCA
GATAATTGCCAAGGAGAACAGCTGATAGAAAAGAGTGAGCCCTTGGATGCAGCGATCATCGAGGAGGAA
CTAGATGAGCTCCGACGGTACTGCCAGGAGGTCTTCGGGCGTGTGAAAGATAACATAAGAAACTGATCC
GCCTGCCTCTCCAGACGATGAGCAGCAGCTCTCAGACAGGGAGCTGGAGCTGGAAGACTCTGCAGCTCT
GTCGGACTGCACTGGCAGCAGCCTCTGCAGACAGCCTGCTTTTCCACAGCCTTCTCCAATCTCTCC
CTCTCGCTCGCTCAGCCCCTCCGGAGCGAGCGGTGAGGACGAGACACCCCGGCTAGTGTGGACTCCATCC
CCCTGGAGTGGGATCACGACTATGACCTCAGTCGGGACCTGGAGTCTGCAATGTCCAGAGCTCTGCCTC
TGAGGATGAAGAAGTCAAGGATGACAAAGATTTCTACCTCCGGGAGCTGTTGGCTTATCAGATGTAATG
ATCCCCGAAAGCCCTGAGGCCTATGAAAACCTCACAGAAAATGCAATCAAAAATACCTCCGGGGACCACA
GTGCCCTAGAGTCACAGATCCGACAACCTGGCAAGCCCTGGATGATAGCCGTTTTCCAGATACAGCAAAAC
CGAAAATATCATTGCGAGCAAACTCCACGGGGCCGGAGCTAGACACCAGCTACAAAGGCTACATGAAA
CTGCTGGGCGAATGCAGTAGCAGTATAGACTCCGTGAAGAGACTGGAGCACAACCTGAAGGAGGAAGAGG
AGAGCCTTCTGGCTTTGTTAACCTGCATAGTACCGAAACCCAAACGGCTGGTGTGATTGACCGATGGGA
GCTTCTCAGGCCAGGCATTGAGCAAGGAGTTGAGGATGAAGCAGAACCTCCAGAAGTGGCAGCAGTTT
AACTCAGACTTGAACAGCATCTGGGCCTGGCTGGGGGACACGGAGGAGGATTGGAACAGCTCCAGCGTC
TGGAACTCAGCACTGACATCCAGACCATCGAGCTCCAGATCAAAAAGCTCAAGGAGCTCCAGAAAGCTGT
GGACCACCGCAAAGCCATCATCTCTCCATCAATCTCTGCAGCCCTGAGTTCACCCAGGCTGACAGCAAG
GAGAGCCGGGACCTGCAGGATCGCTTGTGCGAGATGAATGGGCGCTGGGACCGAGTGTGCTCTGCTGG
AGGAGTGGCGGGGCTGCTGCAGGATGCCCTGATGCAGTGCCAGGGTTTTCCATGAAATGAGCCATGGTTT
GCTTCTTATGCTGGAGAACATTGACAGAAGGAAAAATGAAATTGTCCCTATTGATTCTAACCTTGATGCA
GAGATACTTCAGGACCATCACAACAGCTTATGCAATAAAGCATGAGCTGTTGGAATCCCACTCAGAG
TAGCCTCTTTGCAAGACATGTCTTGCCAACTACTGGTGAATGCTGAAGGAACAGACTGTTTGAAGCCAA
AGAAAAAGTCCATGTTATTGAAAATCGGCTCAAACCTTCTTTGAAGGAGGTCAGTCGTATATCAAGGAA
CTGGAGAAGTTATTAGACGTGTCAAGTAGTCAGCAGGATTTGTCTTCTGGTCTTCTGCTGATGAACTGG
ACACCTCAGGGTCTGTGAGTCCCACATCAGGAAGGAGCACCCCAAACAGACAGAAAACGCCACGAGGCAA
GTGTAGTCTCTCACAGCCTGGACCCTCTGTGAGCAGTCCACATAGCAGGTCCACAAAAGGTGGCTCCGAT
TCTCCCTTTCTGAGCCAGGGCCAGGTCGGTCCGGCCGCGGCTTCTGTTGAGAGTCTCCGAGCAGCTC
TTCCCTTTCAGCTTCTCTGCTCTCTCATCGGGCTTGCTGCCTTGACCAATGTCAGAGGAAGACTA
CAGCTGTGCCCTCTCAACAACCTTGCCGGTCTATTCCACCCATGCTCAGATACACGAATGGCCCTCTC
CCTCTGA
    
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_133650 unedited
TATTTTGTAAACGACTCACTATAGGGCGGCCGCGAAATTCGCACGAGGAACAAATGGGA
GAACGACTTGCTAAAGCCAGCCATGAAAGCAAAGCATCTGAGATTGAATACAAGCTGGGA
AAGGTCAACGACCCGGTGGCAGCATCTCCTGGACCTCATTGCAGCCAGGGTGAAGAAGCTG
AAGGAGACCCTGGTAGCCGTGCAGCAGCTTGATAAGAACATGAGCAGCCTGAGGACCTGG
CTCGCTCACATCGAGTCAGAGCTGGCCAAGCCAATAGTCTACGATTCTGTAACTCGGAA
GAAATACAGAGAAAGCTTAATGAGCAGCAGGAGCTTCAGAGAGACATAGAGAAGCACAGT
ACAGGTGTTGCATCTGTCTCAACCTGTGTGAAGTCTGCTGCACGACTGTGACGCCTGT
GCCACTGATGCCGAGTGTGACTCTATACAGCAGGCTACGAGAAACCTGGACCGGCCGTGG
AGAAACATTTGTGCTATGTCCATGGAAAGGAGGCTGAAAATCGAAGAGACGTGGCGATTG
TGGCAGAAATTTCTGGATGACTATTCACGTTTTGAAGATTGGCTGAAGTCTTCAGAAAGG
ACAGCTGCTTTTCCAGCTCTTCTGGGGTATCTATACAGTTGCCAAGGAAGAACTAAAG
AAATTTGAGGCTTTCCAGCGACAGGTCCACGAGTGCCTGACGCAGCTGGAAGTATCAAC
AAGCAGTACCGCCGCTGGCCAGNGAGAACCGCACTGATTAGCAATTAGCCTCAACAG
ATGGTTCACGAAGCAACAGAGATGGGACAACCTGCANAAGCGTGTACCTCCATCTTG
CGCAGACTCAAGGNTNTTGTATGCCTCATCTGTAATANAGCCANNAGATGGGACTGG
NCCATTTGATGAGTCTTGTAGACCAGTCTCANTGATTNTGTAGAATGGATGGGCAGAGAG
TAAACCCGGATGATTAGCAAAGATGCCAGCTCTCATTGCTGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_133650 unedited
TATGAACCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTATAATATCTATA
ATAAATGCAAAGAAATCAATACAACAAAACCTTGCTTTAGCAAAGTACATACATAAA
TATCTTTTTTTTTACTATAACATTCAACTTTTTTACATAAAGCCTTCCATGATCTTATT
TATTACATCTAGTTTTTCTTTATACCTCTAAAAAAAAGTGCCTTTTAGATTTACAGCTTG
TGCTTCTAAAGCAAAGGTTAAAACATCATGCCCAAAGGAAAACAAGGTAAGGAAAGC
TGCCATATAAGCTCTTAAAAATTGTATGTTACAAGGTTCTAAAATCTCTTCAGCACTGGT
TGGTTGGTAGATTGTACGACACTGACATGGTGTGGGAGGGTCAATTTATCTGATGGTTG
GAGCAGCACCATGGGAAAGCTGCCAGATGGTCTACTGAAGTCTTGGCTGTGCACAGAA
TGGGCAAGGCCAGAAATTCATGAGTCCGGGAACTTTGGAGGTCCTTACTCAATCTCC
TTAGTGCTAAGGTTGAGAGTCTCAAACAGATTTCTTCAAACCTTCTTGTGTGTTTT
GTTCCCGTCACTGTTTATCTTCCACCTCTGAAGCCATAATTTGCACACATGTGATCTG
GAGGAGGGCTAAAGCTGCCACACCGAGGCTTTGCGCAAGATCAAGGTCCTCTTGTGGT
AGTTTGGGATTGCTTATGACCCGATCCTCTTATGCTACCAGCACTTCTGCAGATGGCAT
CTGCTTAGTTCAGAGTGGAGGAGGCCATTGCGTATCTGAGCATGGNGTGAATGACCG
GGCAAAGTTGTTGGAGAAGGCACAGCTGTAGTCTTCTCTGACATTGTACAAGGCAGCAA
GCCCGATGAGAGGCCAGAAAGCTGAAGGAAGAGCTGCTCGAGACTCTGACAGAACCGC
GGCCGACGAC

Restriction Sites:

NotI-NotI

ACCN:

NM_133650

Insert Size:

4000 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:	<u>NM_133650.1, NP_598411.1</u>
RefSeq Size:	3801 bp
RefSeq ORF:	2949 bp
Locus ID:	23345
Cytogenetics:	6q25.2
Domains:	spectrin
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a spectrin repeat containing protein expressed in skeletal and smooth muscle, and peripheral blood lymphocytes, that localizes to the nuclear membrane. Mutations in this gene have been associated with autosomal recessive spinocerebellar ataxia 8, also referred to as autosomal recessive cerebellar ataxia type 1 or recessive ataxia of Beauce. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and lacks many exons in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 3, also known as nesprin-1 alpha) with a distinct N-terminus, compared to isoform 1.</p>