

Product datasheet for **SC309726**

Nesprin 1 (SYNE1) (NM_033071) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Nesprin 1 (SYNE1) (NM_033071) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Nesprin 1 |
| Synonyms: | 8B; AMC3; AMCM; ARCA1; C6orf98; CPG2; dj45H2.2; EDMD4; KASH1; MYNE1; Nesp1; SCAR8 |
| Vector: | <u>pCMV6 series</u> |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_033071, the custom clone sequence may differ by one or more nucleotides |

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 AGATACACGAATGGCCCTCTCCACTCTGA

Restriction Sites:

Please inquire

ACCN:

NM_033071

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.

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_033071.1](#), [NP_149062.1](#)

RefSeq Size: 27435 bp

RefSeq ORF: 26250 bp

Locus ID: 23345

UniProt ID: [Q8NF91](#)

Cytogenetics: 6q25.2

Domains: CH, spectrin, M

Protein Families: Druggable Genome

Gene Summary:

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]

Transcript Variant: This variant (2) differs in the 5' UTR and has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 2, which is shorter than isoform 1.