

Datasheet for ABIN7555675  
**Nesprin3 Protein (AA 1-975) (His tag)**



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## Overview

Quantity:	1 mg
Target:	Nesprin3 (C14orf49)
Protein Characteristics:	AA 1-975
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Nesprin3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat SYNE3 Protein expressed in mammalian cells.
Sequence:	MTQQPQDDFD RSVEDAQAWM KAVQDQLQVN DNTQGPRAL EARLWETEKI CQLEPEGRVR VDLVLRLMAEA LLACCPGDQK PGILARLKI KAQWEETVY MTHCHSRIEW VWLHWSEYLL ARDEFYRWFQ KMMVTLEPHI ELQLGLKEKQ WQLSHAQVLL HNVDNQAVLL DRLLLEEAASL FNRIGDPSVD EDAQKRMKAE YDAVKAKAQK RVDLLEQVAR EHEEYQAGVD EFQLWLKAVV EKVNGCLGRN CKLPITQRLS TLQDIAKDFP RGEESLETLE EQSAGVIRNT SPLGAEKITG ELEEMRKVLE KLRALWEEEE ERLRGLLSR GAWEQQIKQL EAELSEFRMV LQRLAQEGLQ PAAKAGTEDE LVAHWRRYSA TRALASEEP RVDRLQAQLK ELIVFPHNLK PLSDSVIATI QEYQSLKVKS ARLRNAAAVE LWQHFQRPLQ DLQLWKALAQ RLLEVTASLP DLPSLHTFLP QIEAALMESS RLKELLTMLQ LKKDLLIGIF GQERATALLE QVAGSMRDRD LLHNSLLQRK SKLQSLLAQH KDFGAAFEPL QRKLLDLQVR VQAEKGLQRD LPGKQAQLSR LQGLQEEGLD LGAQMEAAP LVQENPNHQH KMDQLSSDFQ ALQRSLEDLV DRCRQSVQEH CTFSHQLEL

## Product Details

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RQWIVVTTQK LEAHRGEAGP GDAESQEAEF ERLVAEFPEK EAQLSLVEAQ GWLVMEKSSP  
EGAAVVQEEL RELAESWRAL RLLEESLLSL IRNWHLQRME VDSGKKMVFT NNIPKSGFLI  
NPMDDIPRHR RRANLLQEEE GSHEDFSQLL RNFGQWLQVE NSKLVRIIAM RTSTAEDLRT  
RKSKLQELEA RVPEGQHLFE NLLRLGPARG TSDELEDLRY QWMLYKSKLK DSGHLLTQSS  
PGEPTGFQKT RRWRGLGSLF RRACCVALPL QLLLLLFLLL LFLLPiREED RSCTLANNFA  
RSFTLMLRYN GPPPT **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

Nesprin3 (C14orf49)

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### Alternative Name:

SYNE3 ([C14orf49 Products](#))

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### Background:

Nesprin-3 (KASH domain-containing protein 3) (KASH3) (Nuclear envelope spectrin repeat protein 3),FUNCTION: As a component of the LINC (LInker of Nucleoskeleton and Cytoskeleton) complex involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and

## Target Details

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positioning. Probable anchoring protein which tethers the nucleus to the cytoskeleton by binding PLEC which can associate with the intermediate filament system. Plays a role in the regulation of aortic epithelial cell morphology, and is required for flow-induced centrosome polarization and directional migration in aortic endothelial cells.

{ECO:0000269|PubMed:16330710, ECO:0000269|PubMed:18396275, ECO:0000269|PubMed:21937718}.

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Molecular Weight: 112.2 kDa

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UniProt: [Q6ZMZ3](#)

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Pathways: [Maintenance of Protein Location](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months