

Product datasheet for **RC217809**

Nesprin3 (SYNE3) (NM_152592) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nesprin3 (SYNE3) (NM_152592) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nesprin3
Synonyms:	C14orf49; C14orf139; KASH3; LINC00341; NCRNA00341; Nesp3; NET53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC217809 representing NM_152592
 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC217809 representing NM_152592
 Red=Cloning site Green=Tags(s)

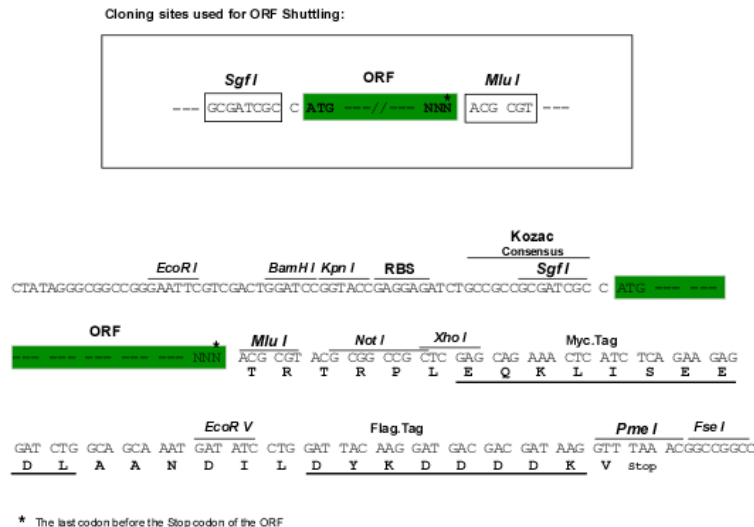
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8012_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152592

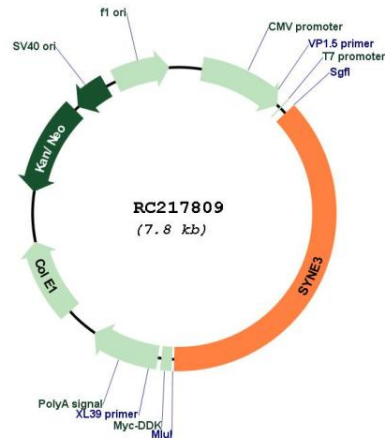
ORF Size: 2925 bp

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. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_152592.2 , NP_689805.2
RefSeq Size:	3175 bp
RefSeq ORF:	2928 bp
Locus ID:	161176
UniProt ID:	Q6ZMZ3
Cytogenetics:	14q32.13
Protein Families:	Transmembrane
MW:	112 kDa

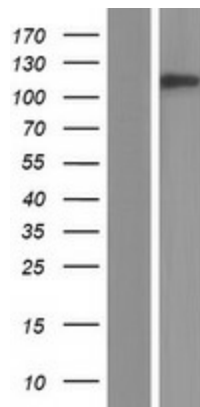
Gene Summary:

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 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC217809



Western blot validation of overexpression lysate (Cat# [LY407399]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217809 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).