

## Product datasheet for **RG213899**

### Nesprin 2 (SYNE2) (NM\_182913) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nesprin 2 (SYNE2) (NM_182913) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYNE2
Synonyms:	EDMD5; KASH2; Nesp2; Nesprin-2; NUA; NUANCE; SYNE-2; TROPH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG213899 representing NM\_182913  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGACCCAGAGAAATCCAGACTGATTCTTGGCGTAAACGGGGAGAGAGCGAGGAACCGTCATCTC  
 CTCAGTCCCTGTGCATCTAGTGGCCCCAGGGCAGGCGGTCTGGCTGCGAGACCCTGTCAGCGTGGA  
 CTCATCCCCCTGGAGTGGGACCACACAGGCGAGTGGGGGCTCCTCCTCACGAAGAGGACGAGGAG  
 GGCCATACTACAGCGCACTGTCAGATGTAGAAATCCCTGAAAATCCTGAGGCATATCTTAAATGACCA  
 CAAAACTTTGAAAGCGTCTTCTGGTAAATCCATTTGGATGGCCACTCGTGGCATGTTCCCGACAGCCC  
 TTCCTGTCCCGAGCATCACTACAAGCAAATGGAAGGTGACAGGAATGTTCCACCTGTTCCCTCGCTCC  
 AGCACCCCTTATAAACACCCTATGAAAGCTACTATTACCTCCAGGCACGGATGGTGGCAAAGAAGGCC  
 CGCGAGTCTGAATGGCAACCCACAGCAGGAAGACGGGGACTGGCCGGTATCACAGAGCAGCAGTCAGG  
 TGCCTTCGACAGATGGGAGATGATTCAAGCACAGGAGCTTCAACAATAAGCTCAAAAATAAAACAAATTTG  
 CAACAGCTGAACCTGATATCAGCGCCATCACTACTTGGCTGAAAAAACTGAAGCAGAGCTGGAATGT  
 TAAAGATGGCAAAGCCTCCCTCTGATATCCAGGAAATAGAACTGAGAGTGAAGAGACTGCAGGAGATACT  
 GAAAGCCTTTGACACTTACAAGGCATTAGTGGTCTCTGTCAACGTGAGCAGCAAGGAATTTCTGCAAACC  
 GAGAGCCCCGAATCCACAGAGCTCCAAAGTAGACTCCGCCAGCTGAGCCTGCTCTGGGAAGCAGCACAGG  
 GCGCAGTGGACAGCTGGAGAGGGGGCTTACGACAGTGCCTCATGCAGTCCAGGGCTCTAAGACACGGCC  
 GCGCTCTGATGTGTTGTTTTTAAGGACTTCCACCAGTTGAGTCAAAATCTGCTGCTGTGGTTAGCGAGT  
 GCCAAGAACCAGGAGCAGAAGGCTCATGTCACCGATCCAAAGGCAGACCCCGGGCTCTCCTAGAGTGTG  
 GGAGGAACTAATGCAACTGAAAAGGAGCTGGTAGAACGTCAACCTCAAGTGGACATGTTACAGGAGAT  
 TTCAAACAGCCTTCTCATTAAAGGACATGGAGAAGACTGTATTGAAGCTGAAGAAAAGGTGCATGTTATT  
 GAGAAGAACTCAACAGTTACGGGAGCAAGTGTCCCAAGATTTAATGGCCTTGCAGGAAACCCAGAACC  
 CAGCCTCACCCCTGCCAGCTTCGACGAGGTAGACTCGGGGGACCAGCCTCCTGCAACATCCGTGCCAGC  
 TCCCCGAGCAAAGCAGTTCAGAGCAGTGAAGACTACAGAAGGCGAGGAGGAGACAGAGAGCAGGGTCCCC  
 GGCAGCACACGGCCACAGCGCTCCTTCTCTCAAGGGTGGTCCGGGCAGCCCTACCCCTGCAGTGTCTCC  
 TCCTGTGCTGCTCCTGGCCTGCCTGCTGCCCTCCTCGAAGAAGACTACAGCTGCACTCAGGCCAA  
 CAACTTTCGCCGGTCTTTTACCCCATGCTGAGGTACACCAATGGGCCACCCCCACA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG213899 representing NM\_182913  
 Red=Cloning site Green=Tags(s)

MEDPREIQTDSWRKRGESEEPSSPQSLCHLVAPGHERSGCETPVSVDSIPLWDHTGDVGGSSHEEDEE  
 GPYYALS DVEIPENPEAYLKMTTKLTKASSGKISDGHSHWVPDPS SPCPEHHYKQMEGDRNVPPVPPAS  
 STPYKPPYKLLLLPPGTDGGKEGPRVLNPNPQQEDGGLAGITEQQSGAFDRWEMIQAQELHNKLIKQNL  
 QQLNSDISAITTWLKKTEAELEMLKMAKPPSDIQEIELRVKRLQEILKAFDITYKALVSVNVSSKEFLQT  
 ESPESTELQSRLRQLSLLWAAQAVDSWRGGLRQSLMQCQGSKTRPRSDVLFKDFHQLSQNLLLWLAS  
 AKNRRQKAHVTDPKADPRALLECRRELMLQEKELVERQPQVDMLEI SNLLIKGHGEDCIEAEEKVHVI  
 EKKLKQLREQVSQDLMALQGTQNPASPLPSFDEVDSGDQPPATSVAPRAKQFRAVRTTEGEEETESRVP  
 GSTRPQRSFLSRVVRAALPLQLLLLLLLLLLACLPSSEEDYSCTQANNFARSFYPLRYTNGPPPT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

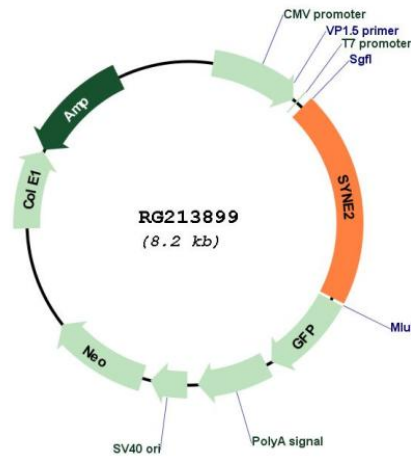
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_182913
<b>ORF Size:</b>	1668 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_182913.3</a>
<b>RefSeq Size:</b>	2712 bp
<b>RefSeq ORF:</b>	1671 bp
<b>Locus ID:</b>	23224
<b>UniProt ID:</b>	<a href="#">Q8WXH0</a>
<b>Cytogenetics:</b>	14q23.2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]