

Product datasheet for **KN212694**

Nesprin 1 (SYNE1) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)
Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA: GFP-puro
Symbol: Nesprin 1
Locus ID: 23345
Components: **KN212694G1**, Nesprin 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ATCACATTGGCGATATCCCG
KN212694G2, Nesprin 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GATATCCCGAGGACACCGGG
KN212694D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC
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TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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GE100003, scramble sequence in pCas-Guide vector

Disclaimer:

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq:

[NM_015293](#), [NM_033071](#), [NM_133650](#), [NM_182961](#), [NM_001347701](#), [NM_001347702](#)

UniProt ID:

[Q8NF91](#)

Synonyms:

8B; ARCA1; C6orf98; CPG2; dj45H2.2; DKFZp781J13156; EDMD4; FLJ30878; FLJ41140; KIAA0796

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]

Product images:

