

## **Product datasheet for KN213843RB**

## OriGene Technologies, Inc.

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## Nesprin 2 (SYNE2) Human Gene Knockout Kit (CRISPR)

#### **Product data:**

**Product Type:** Knockout Kits (CRISPR)

**Format:** 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD Symbol: Nesprin 2 Locus ID: 23224

**Components: KN213843G1**, Nesprin 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN213843G2**, Nesprin 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN213843RBD**, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

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 015180, NM 182910, NM 182912, NM 182913, NM 182914

UniProt ID: Q8WXH0

Synonyms: EDMD5; Nesp2; Nesprin-2; NUA; NUANCE; SYNE-2; TROPH

**Summary:** 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

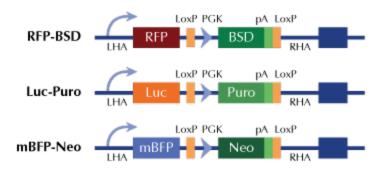
different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]





# **Product images:**

### Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter