

## Product datasheet for **KN311264**

### Nsmf Mouse 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:	Nsmf
Locus ID:	56876
Components:	<p><b>KN311264G1</b>, Nsmf gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCTTACTTTGGCCGCTACCG</p> <p><b>KN311264G2</b>, Nsmf gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCAGCAGTAGCCGGTCAGCC</p> <p><b>KN311264D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

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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TGGCAACAAC GTTGCACAAA CTATTAACCTG GCGAACTACT TACTCTAGCT TCCCAGCAAC AATTAATAGA
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AACACTGCGG CCAACTTACT TCTGACAACG ATCGGAGGAC CGAAGGAGCT AACCGCTTTT TTGCACAACA
TGGGGGATCA TGTAACCTCG CTT

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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\\_001039386](#), [NM\\_001039387](#), [NM\\_001177654](#), [NM\\_001177655](#), [NM\\_020276](#)

**UniProt ID:**

[Q99NF2](#)

**Synonyms:**

Jacob; Nelf

**Summary:**

Couples NMDA-sensitive glutamate receptor signaling to the nucleus and triggers long-lasting changes in the cytoarchitecture of dendrites and spine synapse processes. Part of the cAMP response element-binding protein (CREB) shut-off signaling pathway. Stimulates outgrowth of olfactory axons and migration of gonadotropin-releasing hormone (GnRH) and luteinizing-hormone-releasing hormone (LHRH) neuronal cells.[UniProtKB/Swiss-Prot Function]

Product images:

