

## Product datasheet for KN202833BN

### **SIRT6 Human Gene Knockout Kit (CRISPR)**

**Product data:** 

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

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

**Donor DNA:** mBFP-Neo

SIRT6 Symbol: Locus ID: 51548

**KN202833G1**, SIRT6 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

**KN202833G2**, SIRT6 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN202833BND, donor DNA containing left and right homologous arms and mBFP-Neo

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 001193285, NM 001321058, NM 001321059, NM 001321060, NM 001321061,

NM 001321062, NM 001321063, NM 001321064, NM 016539

**UniProt ID:** Q8N6T7 SIR2L6 Synonyms:

**Summary:** This gene encodes a member of the sirtuin family of NAD-dependent enzymes that are

> implicated in cellular stress resistance, genomic stability, aging and energy homeostasis. The encoded protein is localized to the nucleus, exhibits ADP-ribosyl transferase and histone deacetylase activities, and plays a role in DNA repair, maintenance of telomeric chromatin, inflammation, lipid and glucose metabolism. Alternative splicing results in multiple transcript

variants encoding different isoforms. [provided by RefSeq, Mar 2016]



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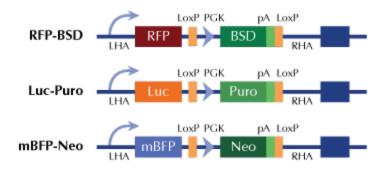
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# **Product images:**

#### Donor Vector Edited Chromosome



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