

Product datasheet for KN202833RB

SIRT6 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: 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)

KN202833RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 001193285, NM 001321058, NM 001321059, NM 001321060, NM 001321061,

NM 001321062, NM 001321063, NM 001321064, NM 016539

UniProt ID: Q8N6T7 Synonyms: SIR2L6

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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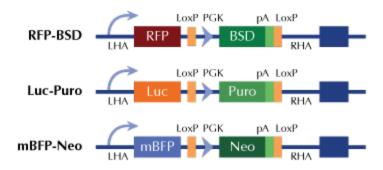
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Product images:

Donor Vector Edited Chromosome



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