

Product datasheet for KN200191LP

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SIRT2 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

SIRT2 Symbol: 22933 Locus ID:

KN200191G1, SIRT2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN200191G2, SIRT2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN200191LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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.

NM 001193286, NM 012237, NM 030593, NR 034146 RefSeq:

UniProt ID: Q8IXI6

Synonyms: SIR2; SIR2L; SIR2L2

Summary: This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2

> protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin family. Several transcript variants are resulted from

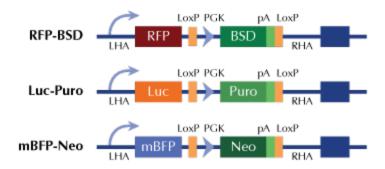
alternative splicing of this gene. [provided by RefSeq, Jul 2010]





Product images:

Donor Vector Edited Chromosome



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