

Product datasheet for **KN200191**

SIRT2 Human 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:	SIRT2
Locus ID:	22933
Components:	<p>KN200191G1, SIRT2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCTGAATGCTGCAGGCCCCG</p> <p>KN200191G2, SIRT2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGAGCCAGACCGTGAGTCG</p> <p>KN200191D, 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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 TTCAGCTCCG GTTCCCAACG ATC

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_001193286](#), [NM_012237](#), [NM_030593](#), [NR_034146](#)

UniProt ID:

[Q8IXJ6](#)

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:

