

Product datasheet for KN200605RB

HDAC3 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: Symbol: HDAC3 8841 Locus ID:

KN200605G1, HDAC3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN200605G2, HDAC3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN200605RBD, donor DNA containing left and right homologous arms and RFP-BSD

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 003883, NM 001355039, NM 001355040, NM 001355041, NR 149164, NR 149165,

NR 149166, NR 149167, NR 149168, NR 149169

UniProt ID: 015379

HD3: RPD3: RPD3-2 Synonyms:

Summary: Histones play a critical role in transcriptional regulation, cell cycle progression, and

> developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses

transcription when tethered to a promoter. It may participate in the regulation of

transcription through its binding with the zinc-finger transcription factor YY1. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is

regarded as a potential tumor suppressor gene. [provided by RefSeq, Jul 2008]



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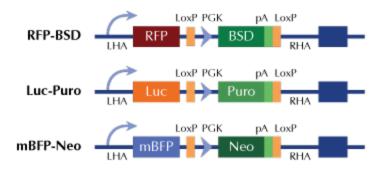
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Product images:

Donor Vector Edited Chromosome



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