

Product datasheet for KN206933BN

Rb (RB1) 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

Symbol: Rb Locus ID: 5925

Components: KN206933G1, Rb gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN206933G2, Rb gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN206933BND, 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 000321

 UniProt ID:
 P06400

Synonyms: OSRC; p105-Rb; pp110; PPP1R130; pRb; RB

Summary: The protein encoded by this gene is a negative regulator of the cell cycle and was the first

tumor suppressor gene found. The encoded protein also stabilizes constitutive

heterochromatin to maintain the overall chromatin structure. The active,

hypophosphorylated form of the protein binds transcription factor E2F1. Defects in this gene

are a cause of childhood cancer retinoblastoma (RB), bladder cancer, and osteogenic

sarcoma. [provided by RefSeq, Jul 2008]



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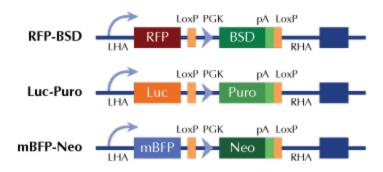
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Product images:

Donor Vector Edited Chromosome



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