

Product datasheet for KN201484BN

RIOK2 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: RIOK2 Locus ID: 55781

KN201484G1, RIOK2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN201484G2, RIOK2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN201484BND, 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 001159749, NM 018343

UniProt ID: O9BVS4 Synonyms: RIO2

Summary: Serine/threonine-protein kinase involved in the final steps of cytoplasmic maturation of the

> 40S ribosomal subunit. Involved in export of the 40S pre-ribosome particles (pre-40S) from the nucleus to the cytoplasm. Its kinase activity is required for the release of NOB1, PNO1 and LTV1 from the late pre-40S and the processing of 18S-E pre-rRNA to the mature 18S rRNA (PubMed:19564402). Regulates the timing of the metaphase-anaphase transition during

mitotic progression, and its phosphorylation, most likely by PLK1, regulates this function

(PubMed:21880710).[UniProtKB/Swiss-Prot Function]



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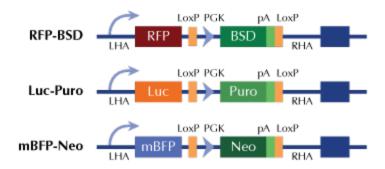
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Product images:

Donor Vector Edited Chromosome



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