

Product datasheet for KN203488BN

RGS10 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

RGS10 Symbol:

Locus ID: 6001

KN203488G1, RGS10 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN203488G2, RGS10 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN203488BND, 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.

NM 001005339, NM 002925 RefSeq:

UniProt ID: O43665

Synonyms: OTTHUMP00000020597; OTTHUMP00000069158; regulator of G-protein signaling 10;

regulator of G-protein signalling 10

Summary: Regulator of G protein signaling (RGS) family members are regulatory molecules that act as

> GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins are able to deactivate G protein subunits of the Gi alpha, Go alpha and Gg alpha subtypes. They drive G proteins into their inactive GDP-bound forms. Regulator of G protein signaling 10 belongs to this family. All RGS proteins share a conserved 120-amino acid sequence termed the RGS domain. This protein associates specifically with the activated forms of the two related G-protein subunits, G-alphai3 and G-alphaz but fails to interact with the structurally and functionally distinct G-alpha subunits. Regulator of G protein signaling 10 protein is localized in the nucleus. Two transcript variants encoding different isoforms have

been found for this gene. [provided by RefSeq, Jul 2008]



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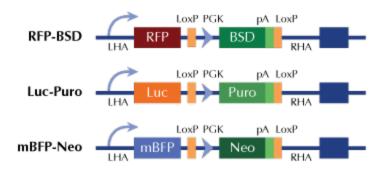
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Product images:

Donor Vector Edited Chromosome



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