

Product datasheet for KN203488RB

RGS10 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: RFP-BSD Symbol: RGS10 Locus ID: 6001

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

Sequence: CGCCGTCAGGTAAGCGGCTT

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

Sequence: TGCTCAGCCGGCTCACGGCG

KN203488RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

Homologous arm and RFP-BSD sequences:

pUC vector backbone in gray; Left arm sequence in blue; RFP-BSD in green; Right arm

in violet

GAGGCCTAGG CTTCCCAGCC TGTGACCCGG GAGGGGACCC CGCCCGCCAC CTGCGAAGGC TCGCTGAGAG CCCCGAAGCG CGGTGCGCCC GCGGCGCCGT GCCAGTTTCT CCGGGGCTAC AGGGAGAAGG CGGGAGACCG CGATGGGCCC GGGAGCTTGA AGCTGGGCGG GGCGGGCCGG GGCGGCATCT CAGGCGAGGG CCAGGGACCC CGGGACGCGC TAACCGCCTC CGCGGGGCTA CTAAGTTCCC GGCGGCGCGG GCTCCCTCTG GGCCAGTGCA CGGGCACCCC GGAGCGGAAC CGCGAGTCCT CACCAGCGGG GGCGGGCAGG GCGCACTGAG CGCGCCACGC GGCGCCTGGC TAGGAGGAGG GCGGCGGGCG GGGACCTAGA GCTCCGGGGC GGTGCTGAGC CCGCTCCTCC TCCTTGCCCT CCTCCTCGCCC TCCTCCTCCT CCTCGCCTTC CTCCGGCTCA GCCGCCGCGC CGCCGGGCTG CTCCTTCTTC CTCCTCGGGC GCCCGCGCGC CCCGGCCTCC TGCCCTCCTT CTTGTGCTCG GGCGCGGCTC GGTGGTACCT CCCAGACTGG AGCCCCGGCC GACCGCACCA CCTCTCCCCG CTGGGTACCG CACCTTCGCG GTCCCAGCCG CGACGGGAGC GCAGAGCTCC TCCGGGAGCC CCGGGGAGGA AGTTTGGCTG AAAGAGGAAC AGCCGCAGTT TTCTTTTTAG TGATGGTCTG GGAGAAAAAG GAGCGCCCCA AATCTCCAAA CTTTGGAGGT GACATGGGGC TCCAGATTCC GAAAGCGGAA CGGCGCGCG GCTTCTCCCT CCGTGACGCT CTCCGCCTCC GCTGCGGGCG TGGGTGGAAG GATGCCGAGC GCCCGGGGGA GCACGGCTGG ACCCGGGCAT CCGACTGGGC CCCTGGGCCT GGGGCGTCGG GGGCCTTCGC TTCTGCCGCG AGGAGCCAAA AGGTGGGATC GCGAGGGTGG CGGAACCCCA GGATGGAGAA GGGCACTTCT GCGGTCCGAG CCAGCGAAGT TCTGACGTTA CGAAGGATTC GCCTTGGCCG TCACTTTGGG CCAGCCTGAG CCACGATCTC GGGCAACTTG ATAGGCCAAA **GACCCCACGG**

GE100003, scramble sequence in pCas-Guide vector



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RGS10 Human Gene Knockout Kit (CRISPR) - KN203488RB

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: <u>NM 001005339</u>, <u>NM 002925</u>

UniProt ID: 043665

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

regulator of G-protein signalling 10

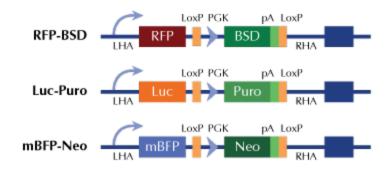
Summary: Regulator of G protein signaling (RGS) family members are regulatory molecules that act as

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 Gq 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]

Product images:

Donor Vector Edited Chromosome



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