

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:	<p>KN203488G1, RGS10 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCCGTCAGGTAAGCGGCTT</p> <p>KN203488G2, RGS10 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGCTCAGCCGGCTCACGGCG</p> <p>KN203488RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p>

Homologous arm and RFP-BSD sequences:

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

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GAGGCCTAGG CTTCCCAGCC TGTGACCCGG GAGGGGACCC CGCCCGCCAC CTGCGAAGGC TCGCTGAGAG
CCCCGAAGCG CCGTGCGCCC GCGGCGCCGT GCCAGTTTCT CCGGGGCTAC AGGGAGAAGG CGGGAGACCG
CGATGGGCCC GGGAGCTTGA AGCTGGGCGG GCGGGCCGG GCGGCGATCT CAGGCGAGGG CCAGGGACCC
CGGGACGCGC TAACCGCCTC CGCGGGGCTA CTAAGTTCCC GCGGGCGCGG GCTCCCTCTG GGCCAGTGCA
CCTTATCCCA GGC CGCGGGGC AACTCTGGG CGATCGGGGG TCACCCGGGG CTGCCCTGCC CTGCCCCGCC
CGGGCACCCC GGAGCGGAAC CGCGAGTCCT CACCAGCGGG GCGGGGCAAG GCGCACTGAG CGCGCCACGC
GGCGCCTGGC TAGGAGGAGG GCGGCGGGCG GGGACCTAGA GCTCCGGGCG GGTGCTGAGC CCGCTCCTCC
TCCTTGCCCT CCTCCTCCTC CTCCTCGCCC TCCTCCTCCT CCTCGCCTTC CTCCGGCTCA GCCGCCGCGC
CGCCGGGCTG CTCCTTCTTC CTCCTCGGGC GCCCGCGGCG CCCGGCCTCC TGCCCTCCCT CTTGTGCTCG
GGCGCGGCTC GGTGGTACCT CCCAGACTGG AGCCCCGGCC GACCGCACCA CCTCTCCCCG CTGGGTACCG
CACCTTCGCG GTCCCAGCGG CGACGGGAGC GCAGAGCTCC TCCGGGAGCC CCGGGGAGGA AGTTTGCTG
AAAGAGGAAC AGCCGAGTT TTCTTTTATG TGATGGTCTG GGAGAAAAG GAGCGCCCCA AATCTCCAAA
CTTTGGAGGT GACATGGGGC TCCAGATTCC GAAAGCGGAA CGGCGCGCGG GCTTCTCCCT CCGTGACGCT
CTCCGCTCC GCTGCGGGCG TGGGTGGAAG GATGCCGAGC GCCCGGGGGA GCACGGCTGG ACCCGGCAT
CCGACTGGGC CCCTGGGCCT GGGCGTCTCG GGGCCTTCGC TTCTGCCGCG AGGAGCCAAA AGGTGGGATC
GCGAGGTTGG CGGAACCCCA GGATGGAGAA GGGCACTTCT GCGGTCCGAG CCAGCGAAGT TCTGACGTTA
CGAAGGATTC GCCTTGGCGG TCACTTTGGG CCAGCCTGAG CCACGATCTC GGGCAACTTG ATAGGCCAAA
GACCCACGG
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GE100003, scramble sequence in pCas-Guide vector



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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_001005339 , NM_002925
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 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-alpha _{i3} and G-alpha _z 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:

