

Product datasheet for KN209137RB

GRK5 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: GRK5 Locus ID: 2869

Components: KN209137G1, GRK5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence:

GGAAAACATCGTGGCCAACA

KN209137G2, GRK5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence:

GTCTTGCTGAAAGCCAGGGA

KN209137RBD, 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

GCCGCCTTTG AGTCGCCTGT CGGCCGGGCG GTGCCCGCCT TCGCTTTCGG TGCCGTCCCG GGGCGGGTCC TCGCTCCGAC AGCCGCGCC CAGCCCAGCT CAGCCCCGGC GCCGCGCGC CGGGAGGACT CCAGCTCCCA GCAGGCCCCG CGCCGCGAGC ACCGAGGCAG GAGGCGCGCC TGGGCCGGCG CTTGCGCAGT GCGGCCGCCC GAGCCTGCTA GTACCACACC CCCGGGAGGG ACTGAGGGGA GGCAGAAGCA TCCGAGGCAT TAAAGCATCC GAGGGAGCCG GAGGGGAGGA GAATGGAGTG ACAGAGACAC GCGGAGGGTG GGGGGTGGGG GGGAGCGTGT TGAGGGAGGG GGGAGGGGGG ACACAGAGGG AGGAAGAAGC GGCGGCGGCG GCGGCGGCG CGGCGGCTCC TCTTTGCAGA GGGGGAAACT CTTGGGCTGA GAGCAGGAAT AATGCGGTAG GCAAGGCGGG CTGCTGGCTC CCCCGGCTCC GGCAGCAGCG GCGGCAGCCC GAGCAGCGGC AGCAGCAGCG GCAGCACCCC AGGCGCTGAC AGCCCCGCCG GCCGGCTCCG TTGCTGACCG CCGACTGTCA CCGGTACGTG CCCGGCGCGT CCGCCGCGGG CCAGGGTGCG GGTGTCGGGT GGCGTGCGGG CTGGGGCTGC GCCCGTGCAG GATGCCCGCT GCCGGCGAGT GGGTCGCGAG CAGGACACTT CGGAGAGCGG CTCTGCAGAC CCTTCAGGGT TCCTGCCTTG GGGCTCAGAG AATCTGGACT TGGGCTGAGA AGGTTGCAGG GATTTGGATG CTAACATATC TCCTAGTTTC CAGCGCTCGC CCTGCAGAGC GTGCCATCTC GGCAGCTGTT GAAAGGTCAG TTGGAAAAGC ATTCATTCGG GGAGCGACGA GCAAACATGC ACATAAAATA GCGTTTCAAG TCGGCCCGGG ATGGTTCTGT GTGAACTGGT GTGTGTTGTTC GAGGGGCGGG GGTGGAATGA GCAGAAGCCA AGTCTTTGCC TGCGCAGGCT GAGTTGATAT AGACTATTGC TGGAAACCAT CCGCTGGGAT GTTTCTTAGG GAAATCCCGT CGTGTGGAAG GAAGCCTTTT AAAGGCAAAG TCAGATGTTG AGGAATTAGC CTTTTCATAG AATTATCAAA GGATGGCTGT ACAGACCACC TAGAAAATAA

TTCAGTATTT

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: <u>NM 005308</u>

UniProt ID: P34947
Synonyms: GPRK5

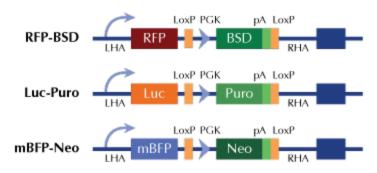
Summary: This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled

receptor kinase subfamily of the Ser/Thr protein kinase family. The protein phosphorylates the activated forms of G protein-coupled receptors thus initiating their deactivation. It has also been shown to play a role in regulating the motility of polymorphonuclear leukocytes

(PMNs). [provided by RefSeq, Jul 2008]

Product images:

Donor Vector Edited Chromosome



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