

Product datasheet for KN209023RB

OriGene Technologies, Inc.

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Two pore calcium channel protein 2 (TPCN2) 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: Two pore calcium channel protein 2

Locus ID: 219931

Components: KN209023G1, Two pore calcium channel protein 2 gRNA vector 1 in pCas-Guide CRISPR

vector (GE100002)

KN209023G2, Two pore calcium channel protein 2 gRNA vector 2 in pCas-Guide CRISPR

vector (GE100002)

KN209023RBD, donor DNA containing left and right homologous arms and RFP-BSD

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 139075

 UniProt ID:
 O8NHX9

Synonyms: SHEP10; TPC2

Summary: This gene encodes a putative cation-selective ion channel with two repeats of a six-

transmembrane-domain. The protein localizes to lysosomal membranes and enables nicotinic acid adenine dinucleotide phosphate (NAADP) -induced calcium ion release from lysosome-related stores. This ubiquitously expressed gene has elevated expression in liver and kidney. Two common nonsynonymous SNPs in this gene strongly associate with blond

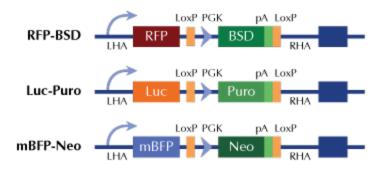
versus brown hair pigmentation.[provided by RefSeq, Dec 2009]





Product images:

Donor Vector Edited Chromosome



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