

Product datasheet for **KN209023RB**

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: [Q8NHX9](#)

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]



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Product images:

