

Product datasheet for **KN217570**

PTP kappa (PTPRK) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	PTP kappa
Locus ID:	5796
Components:	<p>KN217570G1, PTP kappa gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGCAAGAGCGCCACAAAAGC</p> <p>KN217570G2, PTP kappa gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACCTGCGGAGAACTGGCCTT</p> <p>KN217570D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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TGGCAACAAC GTTGCACAAA CTATTAACCTG GCGAACTACT TACTCTAGCT TCCCAGCAAC AATTAATAGA
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TGGGGGATCA TGTAACCTCGC CTT

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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_001135648](#), [NM_001291981](#), [NM_001291982](#), [NM_001291983](#), [NM_001291984](#), [NM_002844](#)

UniProt ID:

[Q15262](#)

Synonyms:

R-PTP-kappa

Summary:

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and two tandem catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP mu (MAM) domain, an Ig-like domain and four fibronectin type III-like repeats. This PTP was shown to mediate homophilic intercellular interaction, possibly through the interaction with beta- and gamma-catenin at adherens junctions. Expression of this gene was found to be stimulated by TGF-beta 1, which may be important for the inhibition of keratinocyte proliferation. [provided by RefSeq, Jul 2008]

Product images:

