

Product datasheet for **KN217570RB**

PTP kappa (PTPRK) 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:	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>KN217570RBD, 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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GGACGGAACC CCAGGACGCC TCTCCTCGGA CGGCGGGGGT TTCTCTGCGC GCGTCTCTCGG TCGTCTGGTC
GCACGGCTTA CCGAACTCTC GCCTCTCAA TTCTGAGTTC TGAACAGGG CAGCGAGCTG CGCCGGCTCC
CCTTTCTCGC TCGCTCCCTC CGAGCAGCGG CTGGCGGGCG GGCCAGGCT GCGAACAAAG GCGGCGGGG
GCGCGCGGCC GGGGCTGGCG CGCGTCTCTC CGGCAGGAGG CGGTGGCGGC GCCGCGCCCG AGCCCGCATT
CCTCAGAAGC GCCCGAGCC CGCGGGGCGA CGTCACCCCC GGCTCCGCC CCGTCCCTCC CCGAGCAAAG
TAACTCTTGA CTAACAGGAG CAGCCTCCGC CGAGCATGGA GAGCTGCCGC CGCGGCCGCG CGGCGACGCT
GGCGACGCTT TCGCCCCTGA GGTAGTTTGG CGACCGCGAA GAAGGAAAAA GGGCGGGCGG GCGGCTGTCC
TCTACCGTC CTCACCCCGC GAGGCCCGGC CCGCTCTCC GTCGTGGATT TCGCGCGGAT CCCCCGGCA
GCTCTTTGCA AAGCTGCTTG AACTTCTCC CAAACTCGGC GTCCCCGACG AACGCCTGGA GTCCTGGGCT
CACGAGGGGT GAGCCAGGTC CCCGCTAGGG CTGGGGACAA GGATCGTGGG GAGCTCTCTC TGTCCGGGG
TGGGGAACAC AGGGTAGAGG GAGGGCTGTC CCCAGAGTTC GTGCCAGGTG GGACGCGGGG CACCCATTGT
TCCTCTCCGA AGCTTGCTCG GGGCTCAGC TGGCACGGTC TAGCCGAGA GTGTGGGAC CTGCTGGCTT
CGGCGTCTCG CGTGGCCTGC GCCGGGCTAG TGGGGAAGAG AGAAAGAAAA AGTAGTTACG ACTCCCGTGA
CGCACTCTG TTGCTTGTGG TCGGGTTTG TTGCTGTCTG CCACTTGGG GTTTAAACAA ATTCCCTGGG
AAGCCATTGT CAGAAATGTG GAGATTGAA GGGACTGACC TCGGCGCGCT TTGCCAGGTG CTTTTGTCC
CGGAATAAC CTCCCCTGAC TATTGTCTAA CTACTCCCC GTCCCTCCCG GAGTCCCTT TTCTCCTCC
CCAGCTCTGG GTTGCTCCCG GGCTTGCCCT GTGCGCTCGG GCACTGCTTG GAGCATGTTC TGTGTGTGTG
TTGGCGGAGC
  
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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_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:

