

Product datasheet for **KN207950RB**

PTP epsilon (PTPRE) 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 epsilon
Locus ID:	5791
Components:	KN207950G1 , PTP epsilon gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN207950G2 , PTP epsilon gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN207950RBD , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. GE100003 , scramble sequence in pCas-Guide vector
RefSeq:	NM_0013166676 , NM_001316677 , NM_006504 , NM_130435 , NM_001323354 , NM_001323355 , NM_001323356 , NM_001323357
UniProt ID:	P23469
Synonyms:	HPTPE; PTPE; R-PTP-EPSILON
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. Several alternatively spliced transcript variants of this gene have been reported, at least two of which encode a receptor-type PTP that possesses a short extracellular domain, a single transmembrane region, and two tandem intracytoplasmic catalytic domains; another one encodes a PTP that contains a distinct hydrophilic N-terminus, and thus represents a nonreceptor-type isoform of this PTP. Studies of the similar gene in mice suggested the regulatory roles of this PTP in RAS related signal transduction pathways, cytokine-induced SATA signaling, as well as the activation of voltage-gated K ⁺ channels. [provided by RefSeq, Oct 2015]



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Product images:

