

## Product datasheet for **KN210792RB**

### PKR (EIF2AK2) 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:** PKR

**Locus ID:** 5610

**Components:** **KN210792G1**, PKR gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)  
**KN210792G2**, PKR gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)  
**KN210792RBD**, 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\\_001135651](#), [NM\\_001135652](#), [NM\\_002759](#)

**UniProt ID:** [P19525](#)

**Synonyms:** EIF2AK1; PKR; PPP1R83; PRKR

**Summary:** The protein encoded by this gene is a serine/threonine protein kinase that is activated by autophosphorylation after binding to dsRNA. The activated form of the encoded protein can phosphorylate translation initiation factor EIF2S1, which in turn inhibits protein synthesis. This protein is also activated by manganese ions and heparin. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]



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## Product images:

