

Product datasheet for KN210792LP

OriGene Technologies, Inc.

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PKR (EIF2AK2) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: PKR Locus ID: 5610

Components: KN210792G1, PKR gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence:

TAATACATACCGTCAGAAGC

KN210792G2, PKR gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence:

TATCAAGAACTGCCTAATTC

KN210792LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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: <u>NM 001135651, NM 001135652, NM 002759</u>

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

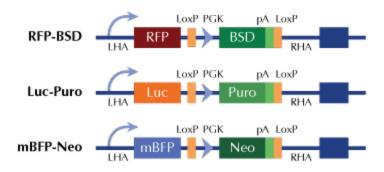
2011]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter