

## Product datasheet for KN200065LP

#### OriGene Technologies, Inc.

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### **EIF2AK1** 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: EIF2AK1 Locus ID: 27102

**Components: KN200065G1**, EIF2AK1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN200065G2**, EIF2AK1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN200065LPD, 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 001134335</u>, <u>NM 014413</u>

UniProt ID: Q9BQI3
Synonyms: HCR; HRI

**Summary:** The protein encoded by this gene acts at the level of translation initiation to downregulate

protein synthesis in response to stress. The encoded protein is a kinase that can be

inactivated by hemin. Two transcript variants encoding different isoforms have been found

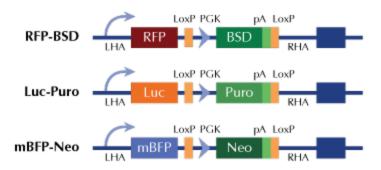
for this gene. [provided by RefSeq, Aug 2008]





# **Product images:**

### Donor Vector Edited Chromosome



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