

# Product datasheet for KN214993RB

## PERK (EIF2AK3) 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** PERK Symbol: 9451 Locus ID: **KN214993G1**, PERK gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **Components:** KN214993G2, PERK gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN214993RBD, 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 001313915, NM 004836 **UniProt ID:** Q9NZI5 Synonyms: PEK; PERK; WRS Summary: The protein encoded by this gene phosphorylates the alpha subunit of eukaryotic translationinitiation factor 2, leading to its inactivation, and thus to a rapid reduction of translational initiation and repression of global protein synthesis. This protein is thought to modulate mitochondrial function. It is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malfolded proteins. Mutations in this gene are associated with Wolcott-Rallison syndrome. [provided by RefSeq, Sep 2015]

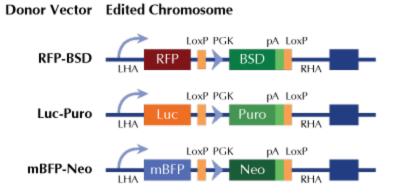


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### **Product images:**



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

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