

# **Product datasheet for KN232825BN**

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## IRG1 (ACOD1) Human Gene Knockout Kit (CRISPR)

#### **Product data:**

Product Type: Knockout Kits (CRISPR)

**Format:** 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

**Donor DNA:** mBFP-Neo

Symbol: IRG1

**Locus ID:** 730249

Components: KN232825GI, IRGI gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN232825G2, IRG1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN232825BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

OTI 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\_001258406</u>

UniProt ID: A6NK06

Synonyms: CAD

Summary: Involved in the inhibition of the inflammatory response. Acts as a negative regulator of the

Toll-like receptors (TLRs)-mediated inflammatory innate response by stimulating the tumor necrosis factor alpha-induced protein TNFAIP3 expression via reactive oxygen species (ROS) in

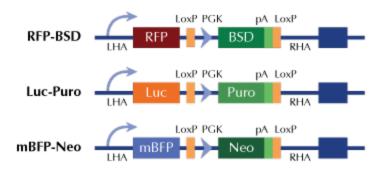
LPS-tolerized macrophages. Involved in antimicrobial response of innate immune cells; ACOD1-mediated itaconic acid production contributes to the antimicrobial activity of macrophages. Plays a role in the embryo implantation. [UniProtKB/Swiss-Prot Function]





## **Product images:**

### Donor Vector Edited Chromosome



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