

## Product datasheet for **KN232825BN**

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

#### Product data:

<b>Product Type:</b>	Knockout Kits (CRISPR)
<b>Format:</b>	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
<b>Donor DNA:</b>	mBFP-Neo
<b>Symbol:</b>	IRG1
<b>Locus ID:</b>	730249
<b>Components:</b>	<p><b>KN232825G1</b>, IRG1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN232825G2</b>, IRG1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN232825BND</b>, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.</p> <p><b>GE100003</b>, scramble sequence in pCas-Guide vector</p>

**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:** [NM\\_001258406](#)

**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:

