

Product datasheet for **KN232825**

IRG1 (ACOD1) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	IRG1
Locus ID:	730249
Components:	KN232825G1, IRG1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGTTAATTAGGTAGCCCCAC KN232825G2, IRG1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGCTACCTAATTAAGTGCA KN232825D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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GTTGCGCAAA CTATTAAGT GCGAACTACT TACTCTAGCT TCCCGGCAAC AATTAATAGA CTGGATGGAG GCGGATAAAG
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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:

NM_001258406

UniProt ID:

A6NKO6

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:

