

Product datasheet for **KN201279**

beta Arrestin 1 (ARRB1) 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:	beta Arrestin 1
Locus ID:	408
Components:	<p>KN201279G1, beta Arrestin 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCTCGGCGAGGACACGGGCG</p> <p>KN201279G2, beta Arrestin 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAAAGGGACCCGGTGAGTGC</p> <p>KN201279D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

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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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_004041](#), [NM_020251](#)

UniProt ID:

[P49407](#)

Synonyms:

ARB1; ARR1

Summary:

Members of arrestin/beta-arrestin protein family are thought to participate in agonist-mediated desensitization of G-protein-coupled receptors and cause specific dampening of cellular responses to stimuli such as hormones, neurotransmitters, or sensory signals. Arrestin beta 1 is a cytosolic protein and acts as a cofactor in the beta-adrenergic receptor kinase (BARK) mediated desensitization of beta-adrenergic receptors. Besides the central nervous system, it is expressed at high levels in peripheral blood leukocytes, and thus the BARK/beta-arrestin system is believed to play a major role in regulating receptor-mediated immune functions. Alternatively spliced transcripts encoding different isoforms of arrestin beta 1 have been described. [provided by RefSeq, Jan 2011]

Product images:

