

## Product datasheet for **KN201168**

### Beta Arrestin 2 (ARRB2) 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 2
Locus ID:	409
Components:	<p><b>KN201168G1</b>, Beta Arrestin 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCTGGGACGGTCCCAGACGA</p> <p><b>KN201168G2</b>, Beta Arrestin 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGAAACCCGGGACCAGGTAA</p> <p><b>KN201168D</b>, 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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AGAAGTAAGT TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCAGC GTTTCTGGGT GAGCAAAAAC
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 CAACCTTATC CGCCTCCATC CAGTCTATTA ATTGTTGCCG GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA  
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 TTCAGCTCCG GTTCCCAACG ATC

**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\\_001257328](#), [NM\\_001257329](#), [NM\\_001257330](#), [NM\\_001257331](#), [NM\\_004313](#), [NM\\_199004](#), [NR\\_047516](#), [NM\\_001330064](#)

**UniProt ID:**

[P32121](#)

**Synonyms:**

ARB2; ARR2; BARR2

**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 2, like arrestin beta 1, was shown to inhibit beta-adrenergic receptor function in vitro. It is expressed at high levels in the central nervous system and may play a role in the regulation of synaptic receptors. Besides the brain, a cDNA for arrestin beta 2 was isolated from thyroid gland, and thus it may also be involved in hormone-specific desensitization of TSH receptors. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2012]

Product images:

