

## Product datasheet for **KN210428**

### beta 3 Adrenergic Receptor (ADRB3) 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 3 Adrenergic Receptor
Locus ID:	155
Components:	<p><b>KN210428G1</b>, beta 3 Adrenergic Receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGAACAGCTCTCTTGCCCCA</p> <p><b>KN210428G2</b>, beta 3 Adrenergic Receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCCAATACCGCCAACACCAG</p> <p><b>KN210428D</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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**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\\_000025](#)

**UniProt ID:**

[P13945](#)

**Synonyms:**

BETA3AR

**Summary:**

The protein encoded by this gene belongs to the family of beta adrenergic receptors, which mediate catecholamine-induced activation of adenylate cyclase through the action of G proteins. This receptor is located mainly in the adipose tissue and is involved in the regulation of lipolysis and thermogenesis. Obesity and bodyweight-related disorders are correlated with certain polymorphisms in three subtypes of beta-adrenoceptor, among them, the ADRB3 gene.[provided by RefSeq, Oct 2019]

Product images:

