

Product datasheet for KN210428RB

OriGene Technologies, Inc.

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beta 3 Adrenergic Receptor (ADRB3) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD

Symbol: beta 3 Adrenergic Receptor

Locus ID: 155

Components: KN210428G1, beta 3 Adrenergic Receptor gRNA vector 1 in pCas-Guide CRISPR vector

(GE100002)

KN210428G2, beta 3 Adrenergic Receptor gRNA vector 2 in pCas-Guide CRISPR vector

(GE100002)

KN210428RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

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: <u>P13945</u>
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,

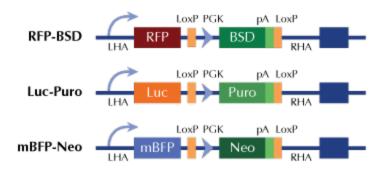
the ADRB3 gene.[provided by RefSeq, Oct 2019]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter