

Product datasheet for KN222906BN

ADCY5 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo

Symbol: ADCY5

Locus ID: 111

KN222906G1, ADCY5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN222906G2, ADCY5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN222906BND, donor DNA containing left and right homologous arms and mBFP-Neo

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.

NM 001199642, NM 183357 RefSeq:

UniProt ID: O95622

Synonyms: AC5; FDFM

Summary: This gene encodes a member of the membrane-bound adenylyl cyclase enzymes. Adenylyl

> cyclases mediate G protein-coupled receptor signaling through the synthesis of the second messenger cAMP. Activity of the encoded protein is stimulated by the Gs alpha subunit of G protein-coupled receptors and is inhibited by protein kinase A, calcium and Gi alpha subunits. Single nucleotide polymorphisms in this gene may be associated with low birth weight and type 2 diabetes. Alternatively spliced transcript variants that encode different isoforms have

been observed for this gene. [provided by RefSeq, Dec 2010]



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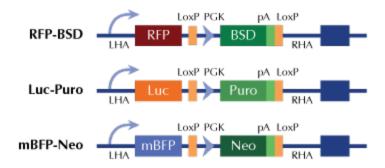
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Product images:

Donor Vector Edited Chromosome



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