

Product datasheet for KN222906LP

OriGene Technologies, Inc.

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ADCY5 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: ADCY5 Locus ID: 111

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

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

KN222906LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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: <u>NM 001199642</u>, <u>NM 183357</u>

UniProt ID: <u>O95622</u>
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

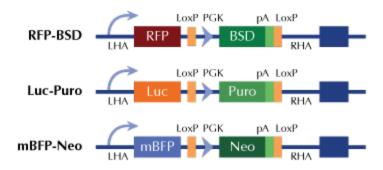
been observed for this gene. [provided by RefSeq, Dec 2010]





Product images:

Donor Vector Edited Chromosome



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