

# **Product datasheet for KN207576LP**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## APJ Receptor (APLNR) 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: APJ Receptor

Locus ID: 187

**Components:** KN207576G1, APJ Receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN207576G2**, APJ Receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN207576LPD, 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 005161</u>, <u>NR 027991</u>

UniProt ID: P35414

Synonyms: AGTRL1; APJ; APJR; HG11

**Summary:** This gene encodes a member of the G protein-coupled receptor gene family. The encoded

protein is related to the angiotensin receptor, but is actually an apelin receptor that inhibits adenylate cyclase activity and plays a counter-regulatory role against the pressure action of angiotensin II by exerting hypertensive effect. It functions in the cardiovascular and central nervous systems, in glucose metabolism, in embryonic and tumor angiogenesis and as a human immunodeficiency virus (HIV-1) coreceptor. Two transcript variants resulting from

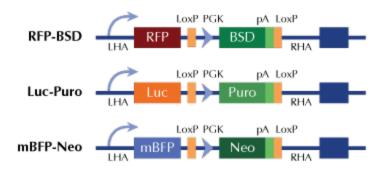
alternative splicing have been identified. [provided by RefSeq, Jul 2009]





# **Product images:**

### Donor Vector Edited Chromosome



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