

### Product datasheet for KN210224LP

### OriGene Technologies, Inc.

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## Cannabinoid Receptor II (CNR2) 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: Cannabinoid Receptor II

**Locus ID:** 1269

Components: KN210224G1, Cannabinoid Receptor II gRNA vector 1 in pCas-Guide CRISPR vector

(GE100002)

KN210224G2, Cannabinoid Receptor II gRNA vector 2 in pCas-Guide CRISPR vector

(GE100002)

KN210224LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 001841</u>

UniProt ID: P34972

**Synonyms:** CB-2; CB2; CX5

**Summary:** The cannabinoid delta-9-tetrahydrocannabinol is the principal psychoactive ingredient of

marijuana. The proteins encoded by this gene and the cannabinoid receptor 1 (brain) (CNR1) gene have the characteristics of a guanine nucleotide-binding protein (G-protein)-coupled receptor for cannabinoids. They inhibit adenylate cyclase activity in a dose-dependent, stereoselective, and pertussis toxin-sensitive manner. These proteins have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition)

experienced by users of marijuana. The cannabinoid receptors are members of family 1 of

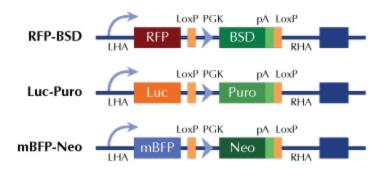
the G-protein-coupled receptors. [provided by RefSeq, Jul 2008]





# **Product images:**

#### Donor Vector Edited Chromosome



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