

Product datasheet for KN204878LP

OriGene Technologies, Inc.

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Glucocorticoid Receptor (NR3C1) 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: Glucocorticoid Receptor

Locus ID: 2908

Components: KN204878G1, Glucocorticoid Receptor gRNA vector 1 in pCas-Guide CRISPR vector

(GE100002)

KN204878G2, Glucocorticoid Receptor gRNA vector 2 in pCas-Guide CRISPR vector

(GE100002)

KN204878LPD, 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: NM 000176, NM 001018074, NM 001018075, NM 001018076, NM 001018077,

NM 001020825, NM 001024094, NM 001204258, NM 001204259, NM 001204260, NM 001204261, NM 001204262, NM 001204263, NM 001204264, NM 001364182, NM 001364184, NR 157096, NM 001364180, NM 001364181,

NM 001364183, NM 001364185

UniProt ID: P04150

Synonyms: GCCR; GCR; GCRST; GR; GRL



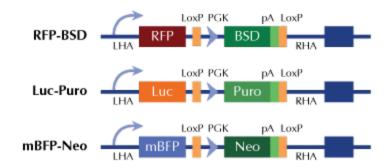


Summary:

This gene encodes glucocorticoid receptor, which can function both as a transcription factor that binds to glucocorticoid response elements in the promoters of glucocorticoid responsive genes to activate their transcription, and as a regulator of other transcription factors. This receptor is typically found in the cytoplasm, but upon ligand binding, is transported into the nucleus. It is involved in inflammatory responses, cellular proliferation, and differentiation in target tissues. Mutations in this gene are associated with generalized glucocorticoid resistance. Alternative splicing of this gene results in transcript variants encoding either the same or different isoforms. Additional isoforms resulting from the use of alternate in-frame translation initiation sites have also been described, and shown to be functional, displaying diverse cytoplasm-to-nucleus trafficking patterns and distinct transcriptional activities (PMID:15866175). [provided by RefSeq, Feb 2011]

Product images:

Donor Vector Edited Chromosome



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