

Product datasheet for KN200655LP

OriGene Technologies, Inc.

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ERK5 (MAPK7) 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: ERK5 Locus ID: 5598

Components: KN200655G1, ERK5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN200655G2, ERK5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN200655LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 002749</u>, <u>NM 139032</u>, <u>NM 139033</u>, <u>NM 139034</u>

UniProt ID: Q13164

Synonyms: BMK1; ERK4; ERK5; PRKM7

Summary: The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as

an integration point for multiple biochemical signals, and are involved in a wide variety of

cellular processes such as proliferation, differentiation, transcription regulation and

development. This kinase is specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to

extracelluar signals, this kinase translocates to cell nucleus, where it regulates gene expression by phosphorylating, and activating different transcription factors. Four

alternatively spliced transcript variants of this gene encoding two distinct isoforms have been

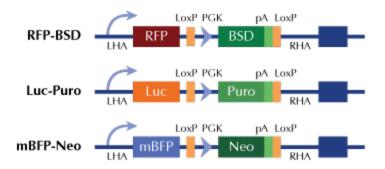
reported. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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