

Product datasheet for KN207454LP

CAMK2D Human Gene Knockout Kit (CRISPR)

Product data:

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

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	CAMK2D
Locus ID:	817
Components:	 KN207454G1, CAMK2D gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN207454G2, CAMK2D gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN207454LPD, 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 001221, NM 001321566, NM 001321567, NM 001321568, NM 001321569,</u> <u>NM 001321570, NM 001321571, NM 001321572, NM 001321573, NM 001321574,</u> <u>NM 001321575, NM 001321576, NM 001321577, NM 001321578, NM 001321579,</u> <u>NM 001321580, NM 001321581, NM 001321582, NM 001321583, NM 001321584,</u> <u>NM 001321585, NM 001321586, NM 001321587, NM 001321588, NM 001321589,</u> <u>NM 001321590, NM 001321591, NM 001321592, NM 172114, NM 172115, NM 172127,</u> <u>NM 172128, NM 172129</u>
UniProt ID:	<u>Q13557</u>
Synonyms:	CAMKD

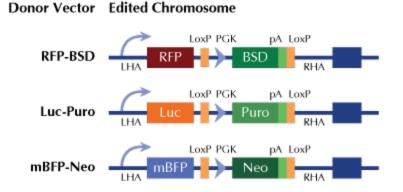


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GRIGENE CAMK2D Human Gene Knockout Kit (CRISPR) – KN207454LP

Summary:The product of this gene belongs to the serine/threonine protein kinase family and to the
Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for
several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is
composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is
a delta chain. Alternative splicing results in multiple transcript variants encoding distinct
isoforms. Distinct isoforms of this chain have different expression patterns.[provided by
RefSeq, Nov 2008]

Product images:



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

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