

Product datasheet for **KN207454**

CAMK2D Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	CAMK2D
Locus ID:	817
Components:	<p>KN207454G1, CAMK2D gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGACGAGTATCAGCTTTTCG</p> <p>KN207454G2, CAMK2D gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGTGAACCTGGTGCAGGTTG</p> <p>KN207454D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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 TAAACCAGCC AGCCGGAAGG GCCGAGCGCA GAAGTGGTCC TGCAACTTTA TCCGCCTCCA TCCAGTCTAT
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 ACAGGCATCG TGGTGTACG CTCGCTGTTT GGTATGGCTT CATTACGCTC CGTTCCCAA CGATC

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_001221](#), [NM_001321566](#), [NM_001321567](#), [NM_001321568](#), [NM_001321569](#),
[NM_001321570](#), [NM_001321571](#), [NM_001321572](#), [NM_001321573](#), [NM_001321574](#),
[NM_001321575](#), [NM_001321576](#), [NM_001321577](#), [NM_001321578](#), [NM_001321579](#),
[NM_001321580](#), [NM_001321581](#), [NM_001321582](#), [NM_001321583](#), [NM_001321584](#),
[NM_001321585](#), [NM_001321586](#), [NM_001321587](#), [NM_001321588](#), [NM_001321589](#),
[NM_001321590](#), [NM_001321591](#), [NM_001321592](#), [NM_172114](#), [NM_172115](#), [NM_172127](#),
[NM_172128](#), [NM_172129](#)

UniProt ID:

[Q13557](#)

Synonyms:

CAMKD

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:

