

Product datasheet for KN205437LP

OriGene Technologies, Inc.

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CAMK2G 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: CAMK2G

Locus ID: 818

Components: KN205437G1, CAMK2G gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN205437G2, CAMK2G gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN205437LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 001204492, NM 001222, NM 001320898, NM 172169, NM 172170, NM 172171,

NM 172172, NM 172173, NM 001367547, NM 001367516, NM 001367518, NM 001367525,

NM 001367526, NM 001367529, NM 001367534, NM 001367537, NM 001367539,

NM 001367540, NM 001367542, NM 001367544, NM 001367545, NR 160042, NR 160045,

NR 160263, NM 001367514, NM 001367517, NM 001367519, NM 001367520, NM 001367521, NM 001367522, NM 001367523, NM 001367524, NM 001367527, NM 001367538, NM 001367530, NM 001367531, NM 001367532, NM 001367533, NM 001367535, NM 001367536, NM 001367538, NM 001367541, NM 001367543,

NM 001367546, NM 001367548, NR 160040, NR 160041, NR 160044, NR 160046, NR 160047

UniProt ID: Q13555

Synonyms: CAMK; CAMK-II; CAMKG

Summary: The product of this gene is one of the four subunits of an enzyme which 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 gamma chain. Many alternatively spliced transcripts encoding different isoforms have been described but the full-length nature of all

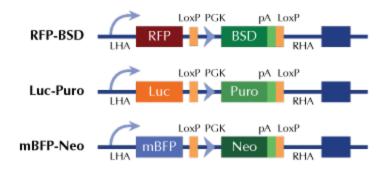
the variants has not been determined.[provided by RefSeq, Mar 2011]





Product images:

Donor Vector Edited Chromosome



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