

Product datasheet for KN211601LP

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L1CAM 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: L1CAM Locus ID: 3897

Components: KN211601G1, L1CAM gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN211601G2, L1CAM gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN211601LPD, 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 000425, NM 001143963, NM 001278116, NM 024003</u>

UniProt ID: P32004

Synonyms: CAML1; CD171; HSAS; HSAS1; MASA; MIC5; N-CAM-L1; N-CAML1; NCAM-L1; S10; SPG1

Summary: The protein encoded by this gene is an axonal glycoprotein belonging to the immunoglobulin

supergene family. The ectodomain, consisting of several immunoglobulin-like domains and fibronectin-like repeats (type III), is linked via a single transmembrane sequence to a

conserved cytoplasmic domain. This cell adhesion molecule plays an important role in nervous system development, including neuronal migration and differentiation. Mutations in

the gene cause X-linked neurological syndromes known as CRASH (corpus callosum

hypoplasia, retardation, aphasia, spastic paraplegia and hydrocephalus). Alternative splicing of this gene results in multiple transcript variants, some of which include an alternate exon

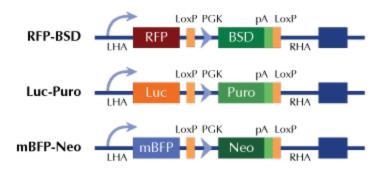
that is considered to be specific to neurons. [provided by RefSeq, May 2013]





Product images:

Donor Vector Edited Chromosome



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