

Product datasheet for **KN211601**

L1CAM 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:	L1CAM
Locus ID:	3897
Components:	<p>KN211601G1, L1CAM gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCTGCTTATCCAGATCCCCG</p> <p>KN211601G2, L1CAM gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGGAATGTGAGTAGCTGAA</p> <p>KN211601D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p> <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</p> <pre>TGTGTGTTGA TTCCCTCAGG CACACACACT AACACACCCA CTCATGAGTG CAACCCCTCC CAGAGAAGAC ACACCACAGA AATACCAGCT CACATACAGC TCACTCCCTG CTTGCAGATC CACAACCACA CACATGCCCA CGGACACCTG CACATGCAGA CACATACGGG GATGTGCATG CCATGCACAG GGGAGCTGAT GGGGCAACAA GTTGGTGTCTG GGAAGGCAGC TGGCAGGAAA GGTGCAGACA GAGAGTAGAG AGGGAATAAA AGGCAACCTA GAGGCCCAGC CAGGGCTATC TCTTCCAGAT TTCTCCCTCC AAGGTGGGGA GGGGTGCGGA TGGGGAGGGG AGGGCTGGAG AAGCCGGCCA GCTGGGGGCG GGGCTGAGGG CGGGGCCAAG AGCCCGGGCT TACCCAGATG TTAGTCACTA ACGTCCTTCC GTTCTCTCGT CTCTCTTCCC CCACCCTTCC CTTCCCTTCT CCCCTCTCCC AGTGCCCCCA CTCCCAACTC CCGCCCCAAG CCGCCCACCA GCCCCCTTCC CCTCCGGCCG GAGCCTGAAC CGAGCCCGGC TGGCTGTGCT GCGCGGTGCC GCCGGGAAAG TACCTTCGCC GCTATGTTGG GCCCTCTTT ATCTTCTACC TCCTCACCTT CTCCTGTTC CGGACCCTGA CTCCTCTCCC TGGCCTTTCC TGGGCACAGG GTGGGCAGGA GATAGCCAGG ACGTTGGGTA CCCCCGAGA GAAGGGCAGG GTAGAAGGTG CGGGGCGTGT CAGGACCATG GACAGGGACA GGC GCGGCGG CCGGGGCGAT TTCAGCACCA GGGACAGCGA ACCTGGAGCA GGGCCCCGAG GTCTTGGGCC TCCTCCATGC TCTCCTTAGC CCGCCCCATC TCTGCCCGCC CCACTCCGAC TCCTCCGCTT CCATCCCCA CCACAGGGT GTGCGAGCAG GAGAATGGGG TCGTCCCCAG CCCTCAGCTG GCTTGTGCAA AGGCCTGTGT TCAAGTCTTG TCCCCATTT TCTTTCCCT CCTGGGCCCT TGGTACCCT GTCTCTGAAC TGAGACAGGA AAAGGTGGCT TGAAAAACCC TGGTCCCAGC CCAGCAGCCT TCTGGACCCT TTTTTGTGTG TAGTTATTTG GTGGGGTGG GGGCAGGGCT GCTGGAGCAT GTGTCTATGG TTGTAACATT TGTTGGGGGC</pre> <p>GE100003, scramble sequence in pCas-Guide vector</p>



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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_000425](#), [NM_001143963](#), [NM_001278116](#), [NM_024003](#)

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:

