

## Product datasheet for RC211601

### L1CAM (NM\_000425) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	L1CAM (NM_000425) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	L1CAM
Synonyms:	CAML1; CD171; HSAS; HSAS1; MASA; MIC5; N-CAM-L1; N-CAML1; NCAM-L1; S10; SPG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211601 representing NM_000425 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:** >RC211601 representing NM\_000425  
 Red=Cloning site Green=Tags(s)

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```

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**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2451\\_e02.zip](https://cdn.origene.com/chromatograms/mg2451_e02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

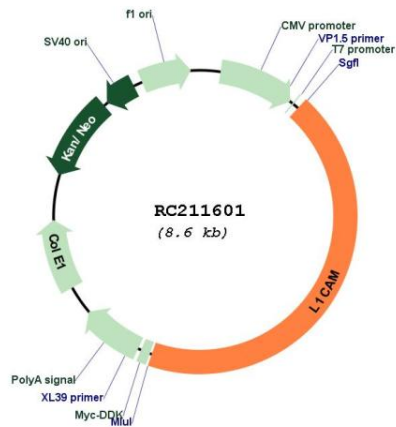


**ACCN:** NM\_000425

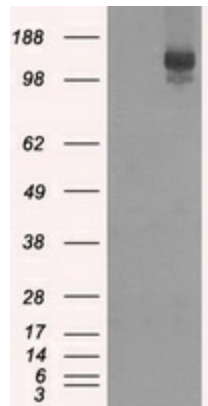
**ORF Size:** 3771 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_000425.5</a>
<b>RefSeq Size:</b>	4525 bp
<b>RefSeq ORF:</b>	3774 bp
<b>Locus ID:</b>	3897
<b>UniProt ID:</b>	<a href="#">P32004</a>
<b>Cytogenetics:</b>	Xq28
<b>Domains:</b>	ig, IGc2, IG, FN3
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	Axon guidance, Cell adhesion molecules (CAMs)
<b>MW:</b>	140 kDa
<b>Gene Summary:</b>	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]

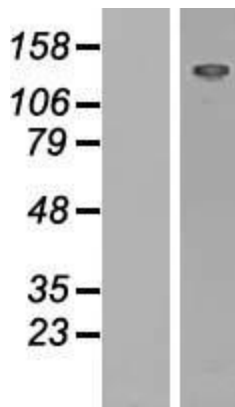
Product images:



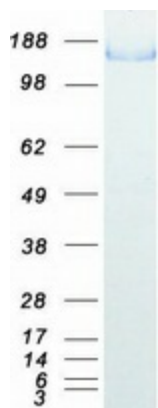
Circular map for RC211601



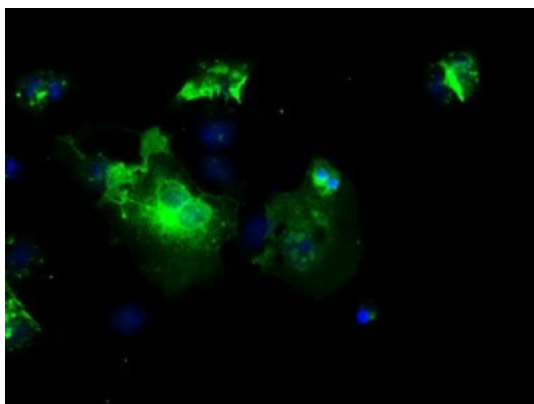
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY L1CAM (Cat# RC211601, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-L1CAM (Cat# [TA500728]). Positive lysates [LY400150] (100ug) and [LC400150] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400150]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211601 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified L1CAM protein (Cat# [TP311601]). The protein was produced from HEK293T cells transfected with L1CAM cDNA clone (Cat# RC211601) using MegaTran 2.0 (Cat# [TT210002]).



Anti-L1CAM mouse monoclonal antibody ([TA500728]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY L1CAM (RC211601).