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Product datasheet for SC309511

L1CAM (NM_024003) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: L1CAM (NM_024003) Human Untagged Clone

Tag: Tag Free

Symbol: L1CAM

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

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_024003, the custom clone sequence may differ by one or more nucleotides

ATGGTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCTGCCTGCTTATC
CAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAG
TCTCCACGGCGCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGT
GGCAAGCCCGAAGTGCAGTTCCGCTGGACGAGGGATGGTGTCCACTTCAAACCCAAGGAA
GAGCTGGGTGTGACCGTGTACCAGTCGCCCCACTCTGGCTCCTTCACCATCACGGGCAAC
AACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATAAGCTG
GGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGCCCCCAAGTGGCCAAAG
GAGACAGTGAAGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCT
CCCCCAAGTGCAGAGCCTCTCCGGATCTACTGGATGAACAGCAAGATCTTGCACATCAAG
CAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCTACTTTGCCAATGTGCTCACC
TCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCCAGGCACCAGGACCATCATT
CAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCG
CGCCTGCTCTTCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGCAGGGGCAGCCATTG
GTCCTGGAGTGCATCGCCGAGGGCTTTCCCACGCCCACCATCAAATGGCTGCGCCCCAGT
GGCCCCATGCCAGCCGACCGTGTCACCTACCAGAACCACAACAAGACCCTGCAGCTGCTG
AAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGGGCAGT
GCCCGGCATGCGTACTATGTCACCGTGGAGGCTGCCCCGTACTGGCTGCACAAGCCCCAG
AGCCATCTATATGGGCCAGGAGAGACTGCCCGCCTGGACTGCCAAGTCCAGGGCAGGCCC
CAACCAGAGGTCACCTGGAGAATCAACGGGATCCCTGTGGAGGAGCTGGCCAAAGACCAG
AAGTACCGGATTCAGCGTGGCGCCCTGATCCTGAGCAACGTGCAGCCCAGTGACACAATG
GTGACCCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACATCTAC
GTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAG
GGCAGCACTGCCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCCAGTGTTCAGTGG
CTGGACGAGGATGGGACAACAGTGCTTCAGGACGAACGCTTCTTCCCCTATGCCAATGGG
ACCCTGGGCATTCGAGACCTCCAGGCCAATGACACCGGACGCTACTTCTGCCTGGCTGCC
AATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTCAGATC
ACTCAGGGGCCCCGCAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTCACGTGCCAG
GCCTCCTTTGACCCCTCCTTGCAGCCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTC
CAGGAGCTTGGGGACAGTGACAAGTACTTCATAGAGGATGGGCGCCTGGTCATCCACAGC

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CTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCAGTACCGAACTGGATGTGGTG
GAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCCGGTGCCACGGCTGGTGCTG
TCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCCTGGAGTCCTGCAGAAGAC
CACAATGCCCCCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAA
AAATGGTACAGTCTGGGCAAGGTTCCAGGGAACCAGACCTCTACCACCCTCAAGCTGTCG
CCCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACAAATATGGCCCCGGGGAGCCC
AGCCCGGTCTCTGAGACTGTGGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTGTGGAT
GTGAAGGGGGAAGGAAATGAGACCACCAATATGGTCATCACGTGGAAGCCGCTCCGGTGG
ATGGACTGGAACGCCCCCCAGGTTCAGTACCGCGTGCAGTGGCGCCCTCAGGGGACACGA
GGGCCCTGGCAGGAGCAGATTGTCAGCGACCCCTTCCTGGTGGTGTCCAACACGTCCACC
TTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCCAGGGCAAGGGACCAGAGCCC
CAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCCAGGCAATCCCTGAGCTGGAAGGC
ATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGGTGGACCTGGCCCAG
GTCAAGGGCCACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAG
CACAGCAAGAGACATATCCACAAAGACCATGTGGTGGTGCCCGCCAACACCACCAGTGTC
ATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGGAGGTGCAGGCCTTTAACGGG
CGAGGATCGGGGCCCGCCAGCGAGTTCACCTTCAGCACCCCAGAGGGAGTGCCTGGCCAC
CCCGAGGCGTTGCACCTGGAGTGCCAGTCGAACACCAGCCTGCTGCTGCGCTGGCAGCCC
CCACTCAGCCACAACGGCGTGCTCACCGGCTACGTGCTCTCCTACCACCCCCTGGATGAG
GGGGGCAAGGGGCAACTGTCCTTCAACCTTCGGGACCCCGAACTTCGGACACACAACCTG
ACCGATCTCAGCCCCCACCTGCGGTACCGCTTCCAGCTTCAGGCCACCACCAAAGAGGGC
CCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAGATTTT
GGCAACATCTCAGCCACAGCGGGTGAAAACTACAGTGTCGTCTCCTGGGTCCCCAAGGAG
GGCCAGTGCAACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGGTGGG
GCTTCCCTTTCGCCACAGTATGTCAGCTACAACCAGAGCTCCTACACGCAGTGGGACCTG
CAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGAGGATGTTCCGGCACCAAATG
GCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCACTGAG
GGCTGGTTCATCGGCTTTGTGAGTGCCATCATCCTCCTGCTCCTCGTCCTGCTCATCCTC
TGCTTCATCAAGCGCAGCAAGGGCGGCAAATACTCAGTGAAGGATAAGGAGGACACCCAG
GTGGACTCTGAGGCCCGACCGATGAAAGATGAGACCTTCGGCGAGTACAGTGACAACGAG
GAGAAGGCCTTTGGCAGCAGCCAGCCATCGCTCAACGGGGACATCAAGCCCCTGGGCAGT
GACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTCAGTTCAACGAGGATGGTTCG
TTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCTCA
GGGGCCACTTCCCCCATCAACCCTGCCGTGGCCCTAGAATAG

Restriction Sites: Please inquire

ACCN: NM_024003

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: 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).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_024003.1, NP_076493.1
RefSeq Size:	4513 bp
RefSeq ORF:	3762 bp
Locus ID:	3897
UniProt ID:	P32004
Cytogenetics:	Xq28
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Axon guidance, Cell adhesion molecules (CAMs)
Gene 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] Transcript Variant: This variant (2) lacks an alternate in-frame neuron-specific exon in the 3' coding region, compared to variant 4. The resulting isoform (2) is shorter and lacks an internal segment containing a tyrosine-based sorting motif, compared to isoform 1.