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Product datasheet for SC337972

L1CAM (NM_001278116) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L1CAM (NM_001278116) 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_001278116, the custom clone sequence may differ by one or more nucleotides

ATGGTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCTGCCTGCTTATCCAGATCCCCG
AGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAGTCTCCACGGCGCCTGGTTGT
CTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCGAAGTGCAGTTCCGCTGGACG
AGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACCAGTCGCCCCACTCTGGCT
CCTTCACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAG
CAATAAGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGCCCCCAAGTGGCCAAAG
GAGACAGTGAAGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCCAAGTG
CAGAGCCTCTCCGGATCTACTGGATGAACAGCAAGATCTTGCACATCAAGCAGGACGAGCGGGTGACGAT
GGGCCAGAACGGCAACCTCTACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCAC
GCCCACTTCCCAGGCACCAGGACCATCATTCAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACA
GCATGATTGACAGGAAGCCGCGCCTGCTCTTCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGCAGGG
GCAGCCATTGGTCCTGGAGTGCATCGCCGAGGGCTTTCCCACGCCCACCATCAAATGGCTGCGCCCCAGT
GGCCCCATGCCAGCCGACCGTGTCACCTACCAGAACCACAACAAGACCCTGCAGCTGCTGAAAGTGGGCG
AGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGGGCAGTGCCCGGCATGCGTACTATGT
CACCGTGGAGGCTGCCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTATATGGGCCAGGAGAGACTGCC
CGCCTGGACTGCCAAGTCCAGGGCAGGCCCCAACCAGAGGTCACCTGGAGAATCAACGGGATCCCTGTGG
AGGAGCTGGCCAAAGACCAGAAGTACCGGATTCAGCGTGGCGCCCTGATCCTGAGCAACGTGCAGCCCAG
TGACACAATGGTGACCCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACATCTAC
GTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCCAGTGTTCAGTGGCTGGACGAGGATGGGACAAC
AGTGCTTCAGGACGAACGCTTCTTCCCCTATGCCAATGGGACCCTGGGCATTCGAGACCTCCAGGCCAAT
GACACCGGACGCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGG
TTAAAGATGCAACTCAGATCACTCAGGGGCCCCGCAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTT
CACGTGCCAGGCCTCCTTTGACCCCTCCTTGCAGCCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTC
CAGGAGCTTGGGGACAGTGACAAGTACTTCATAGAGGATGGGCGCCTGGTCATCCACAGCCTGGACTACA
GCGACCAGGGCAACTACAGCTGCGTGGCCAGTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTT
GGTGGTGGGGAGCCCTGGGCCGGTGCCACGGCTGGTGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAG

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GTGCGCGTGTCCTGGAGTCCTGCAGAAGACCACAATGCCCCCATTGAGAAATATGACATTGAATTTGAGG
ACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTCCAGGGAACCAGACCTCTACCACCCT
CAAGCTGTCGCCCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACAAATATGGCCCCGGGGAGCCC
AGCCCGGTCTCTGAGACTGTGGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTGTGGATGTGAAGGGGG
AAGGAAATGAGACCACCAATATGGTCATCACGTGGAAGCCGCTCCGGTGGATGGACTGGAACGCCCCCCA
GGTTCAGTACCGCGTGCAGTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCAGCGAC
CCCTTCCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCCAGGCAATCCCTGA
GCTGGAAGGCATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGGTGGACCTGGCCCAG
GTCAAGGGCCACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGA
GACATATCCACAAAGACCATGTGGTGGTGCCCGCCAACACCACCAGTGTCATCCTCAGTGGCTTGCGGCC
CTATAGCTCCTACCACCTGGAGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCCCGCCAGCGAGTTCACC
TTCAGCACCCCAGAGGGAGTGCCTGGCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTCGAACACCAGCC
TGCTGCTGCGCTGGCAGCCCCCACTCAGCCACAACGGCGTGCTCACCGGCTACGTGCTCTCCTACCACCC
CCTGGATGAGGGGGGCAAGGGGCAACTGTCCTTCAACCTTCGGGACCCCGAACTTCGGACACACAACCTG
ACCGATCTCAGCCCCCACCTGCGGTACCGCTTCCAGCTTCAGGCCACCACCAAAGAGGGCCCTGGTGAAG
CCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAGATTTTGGCAACATCTCAGCCACAGC
GGGTGAAAACTACAGTGTCGTCTCCTGGGTCCCCAAGGAGGGCCAGTGCAACTTCAGGTTCCATATCTTG
TTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCAGCTACAACCAGAGCT
CCTACACGCAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGAGGATGTTCCG
GCACCAAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCACTGAG
GGCTGGTTCATCGGCTTTGTGAGTGCCATCATCCTCCTGCTCCTCGTCCTGCTCATCCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAAATACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCCGACC
GATGAAAGATGAGACCTTCGGCGAGTACAGGTCCCTGGAGAGTGACAACGAGGAGAAGGCCTTTGGCAGC
AGCCAGCCATCGCTCAACGGGGACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCA
GCGTGGATGTTCAGTTCAACGAGGATGGTTCGTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGC
GGCAGGGGGCAATGACAGCTCAGGGGCCACTTCCCCCATCAACCCTGCCGTGGCCCTAGAATAG

Restriction Sites: SgfI-MluI

ACCN: NM_001278116

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).

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_001278116.1, NP_001265045.1

RefSeq Size: 5141 bp

RefSeq ORF:	3774 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 (4) represents the longest transcript and its 5' UTR structure is inferred based on experimental data in PMID 20799950. Variants 1 and 4 encode the same isoform (1).