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Product datasheet for SC109376

L1CAM (NM_000425) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L1CAM (NM_000425) Human Untagged Clone
Tag:	Tag Free
Symbol:	L1CAM
Synonyms:	CAML1; CD171; HSAS; HSAS1; MASA; MIC5; N-CAM-L1; N-CAML1; NCAM-L1; S10; SPG1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC109376 sequence for NM_000425 edited (data generated by NextGen Sequencing)

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ATGGTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCTGCCTGCTTATC
CAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAG
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GAGCTGGGTGTGACCGTGTACCAGTCGCCCCACTCTGGCTCCTTCACCATCACGGGCAAC
AACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATAAGCTG
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CAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCG
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GTCCTGGAGTGCATCGCCGAGGGCTTTCCCACGCCCACCATCAAATGGCTGCGCCCCAGT
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AATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTCAGATC
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GCCTCCTTTGACCCCTCCTTGCAGCCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTC
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GAGGATGGTTCGTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGC
AATGACAGCTCAGGGGCCACTTCCCCCATCAACCCTGCCGTGGCCCTAGAATAG

Clone variation with respect to NM_000425.3

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000425 unedited
NTTTGTTCGAATTTTGTAATACGAACTCACTATAGGGCGGCCGCGAATTCGCACGAGGGG
CGGCGGGTCCGAGGCCGGCGTGCGCGGAGGCTGGGCGGGCAGCCCGAGCGGTGGCCGCAG
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CCGGAGCCTGAACCGAGCCCGGCTGGCTGTGCTGCGCGGTGCCGCCGGGAAAGATGGTCG
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CCACTCAGATACATCTGCCACGCCCACTTCCAAGCAACCAGACATCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000425 unedited
NNTTTTACTCTGGACCGGCGGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTGAT
TTTCAGGTTTTATTTGCCTGTTATAATTCTGATATTATGTACATATATATATATACTTTT
GTTTTTTTGTAGAGGGCTTATCAGTAGACCAAGCACAGGCATACAGGGAGGCTGTGGCTG
CTGAGCAGTGCTGGGAGAACCAATCTTTCCTTTTTTTTTGTCTGTTTTTATTTTTCCTGG
GATGGGTTCATCAAAGCTAATTGCTATCAATCCTAGAAACCACCTAGGGACTCAGACATC
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TATTTACATTCCCAAGGTGGGGGCGGGAGGAGGCTGAGGAAGACAACTGTTCAGACGATA
GGGAGGGCAGGGCTGCTAAGGGGTCCTGGGGGGTGGGGGCGGCTGGAAGAGGCCGGCCAG
TGGGCAGTGGGAGGAGGTGTGCCCGCCCCGCAGCCAGGTAGTGACGGAGGCCACTTGGAT
GTTGTGTGGTGGGTACCGAAGGCAGCGTGTGTATGGAGCTCCTGAAAGCCGGCATGGGGT
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TGGAGCANAGATGGCAAAGAAAAGAAGCAGATGGTGGGGACACCCGGTTCTGTTCCCAGT
CCCACCCAAGCTGCTGGGGAATGGCTTGGGGAGAGGGAAAAAGGGCCAACCTTGGTCCTG
AGGAAACCCCCCATTTTTGTCCCCACTTCCGGCACCAAGAAAGACAAATTTTCGGGAAAC
ACTTTTGGGCCACCCCTTACCTTTTCTTCCCCAAAA

Restriction Sites: NotI-NotI

ACCN: NM_000425

Insert Size: 5000 bp

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: A TrueClone.

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).

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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_000425.2, NP_000416.1
RefSeq Size:	4525 bp
RefSeq ORF:	3774 bp
Locus ID:	3897
UniProt ID:	P32004
Cytogenetics:	Xq28
Domains:	ig, IGc2, IG, FN3
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 (1, also known as FL-L1CAM) differs in the 5' UTR and represents use of an alternate promoter, compared to variant 4. Variants 1 and 4 encode the same isoform (1).

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