

## Product datasheet for **RR200937**

### L1cam (NM\_017345) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	L1cam (NM_017345) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	L1cam
Synonyms:	Hsas; Hyd; N-CAM L1; NCAML1; NgCAM
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR200937 representing NM_017345 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCATGATGCTGTGGTACGTGTTGCCTCTTCTCCTCTGCAGCCCCTGCCTGCTCATAACAGATTCCTG  
ATGAATATAAAGGACACCATGTACTGGACCCACTGTCATCACAGAACAGTCTCCACGGCGCTGGTTGT  
CTTCCCAACAGATGACATAAGCCTCAAATGTGAAGCCAGAGGCAGACCCCAAGTGGAGTTCGGCTGGACG  
AAAGATGGCATCCACTTCAAACCTAAGGAAGAATTGGGTGTAGTGGTACACGAGGCACCCTATTCTGGCT  
CCTTCACCATCGAAGGCAACAACAGCTTTGCCAGAGTTTCAGGGCATCTATCGCTGCTATGCCAGCAA  
TAATCTAGGAAGTCCATGTGCGATGAGATCCAGCTCGTGGCTGAGGGTGCCCCAAATGGCCGAAGGAG  
ACTGTAAAACCCGTGGAAGTGGAGGAAGGAGAATCAGTAGTTCTACCTTGCAATCCTCCACCCAGTGCAG  
CCCCACTTAGGATCTACTGGATGAACAGCAAGATTTTGCACATCAAACAAGATGAGCGGGTGTCCATGGG  
CCAGAACGGAGACCTATATTTGCCAATGTGCTTACCTCAGACAATCATTAGACTACATCTGCAATGCC  
CACTTCCCTGGCACCCGGACCATCATTTCAAAGGAACCTATTGACCTCCGGGTCAAGCCCACCAAGCA  
TGATTGACCGGAAGCCAGCCTGCTCTTCCCACAACTCCAGCAGTCACTCGTGGCCTTGCAAGGCCA  
GTCATTAATCCTGGAGTGCATTGCTGAGGGATTCCCTACACCCACCATCAAGTGGCTGCACCCAGTGAC  
CCTATGCCAACAGACCGTGTATCTACCAGAACCATAACAAGACTGCACTCCTCAATGTGGCGGAGG  
AAGATGATGGCGAGTACCTGCCTTGCTGAGAACTCACTGGGCAGTGTGCGCATGCCTACTATGTAC  
TGTGGAAGCTGCCCCATACTGGCTGCAGAAGCCCCAGAGTCATTTGTATGGGCCAGGAGAGACTGCCCGC  
CTAGACTGCCAAGTCCAGGGCAGGCCCCAACAGAGGTCACTGGAGAATCAACGGAATGTCTATAGAGA  
AGGTGAACAAGGACCAGAAGTACCGGATTGAGCAGGGTCTTTGATCCTGAGTAATGTGCAACCAAGTGA  
CACAATGGTGACCCAGTGTGAAGCTCGCAACCAGCATGGGCTCCTACTAGCCAATGCCTATATCTATGTT  
GTCCAGCTGCCAGCCAGGATCCTAACAAAAGACAATCAGACATACATGGCAGTAGAGGGCAGTACTGCTT  
ACTTGCTGTGCAAGCCTTTGGAGCTCCTGTTCCAGTGTCCAGTGGCTGGATGAGGAAGGAACACAGT  
GCTTCAGGATGAAAGATTTTCCCTATGCCAATGGACACCTGGGCATCAGAGATCTCCAGGCCAATGAC  
ACTGGACGCTATTTCTGCCAGGCTGCCAATGACCAGAACAATGTGACATTTTGGCTAACCTACAGGTTA



[View online »](#)

AAGAAGCAACCCAGATCACACAAGGACCCCGGAGCACAATTGAGAAGAAAGGTGCAAGGGTGACATTCAC  
GTGCCAGGCCTCCTTTGACCCCTCTTTACAAGCCAGCATCACTTGGCGTGGAGATGGGAGAGACCTCCAG  
GAACGTGGAGACAGTGACAAGTATTTATAGAAGATGGGCAACTTGTCAATCAAGAGCCTGGACTACAGTG  
ACCAGGGAGACTACAGTTGTGTGGCCAGCACTGAACTGGATGAGGTGGAGAGCAGGGCACAACCTCTTAGT  
GGTGGGAAGCCCTGGGCCAGTGCCTCACCTGGAGCTGTCCGACCCCACTTGTGAAGCAGAGCCAGGTG  
CACTTGTCTTGGAGCCCTGTGAAGACCACAACCTCCCATTGAGAAATATGACATTGAATTTGAGGACA  
AGGAAATGGCTCCTGAGAAATGGTTCAGTCTAGGCAAGGTGCCAGGAAATCAGACCTCTACTACCTCAA  
GCTGTCCCCTATGTCCACTACACCTTTGCGGTCACTGCCATTAACAAATATGGTCTGGAGAACCAGC  
CCTGTCTCTGAGACTGTAGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTGTGGATGTGAGAGGGGAAG  
GAAATGAGACCAACAATATGGTCATCACATGGAAGCCCTTCGGTGGATGGATTGGAATGCCCCAGAT  
TCAGTACCGTGTACAGTGGCAGCACTGGGCAACAAGAGACCTGGAAGGAACAGACCGTGGAGCAGCCC  
TTCCTGGTGGTGTCTAACACTTCCACATTTGTGCCTTATGAGATCAAAGTCCAGGCAGTGAACAACCAGG  
GGAAGGGCCCTGAGCCCCAGGTACCATTTGGCTATTAGGGGAAGACTACCCCAAGTGGCCCTGAGCT  
TGAAGACATCACAACTTCAACTCAAGCACTGTGCTGGTCAAGTGGAGGCCTGTGGACTTGGCCAGGTT  
AAGGGCCACCTCAGGGGATACAATGTAACGTACTGGTGAAGGGCAGTCAGAGAAAGCACAGCAAGAGGC  
ATGTCCACAAAAGTACATGGTGGTACCTGCGAACACCACAGTCCATCCTCAGTGGTTTTGCGTCTTA  
CAGCTCTTATCATGTAGAGGTACAGGCCTTAATGGGCGGGCTTAGGGCCTGCAAGTGAATGGACCTTC  
AGCACCCAGAGGGAGTGCCTGGCCACCCTGAGGCATTACATCTGGAGTCCAGTCCGACACTAGCCTGC  
TACTGCACTGGCAGCCACCCTCAGCCACAATGGAGTGTCACTGGTACCTGCTCTTACCATCCCTT  
GGATGGGAAAGCAAAGAGCAGTTGTTCTTCAACCTTTGCGACCCAGAGCTCCGGACTCATAATCTCACC  
AACCTCAACCCTGATCTACAGTACCGCTTCCAGCTTCAAGCCACCACCCATCAGGGTCTGGTGAGGCCA  
TTGTGCGTGAAGGAGGCACTATGGCCCTATTTGGCAAGCCAGATTTTGGCAACATTTAGTCCACAGCAGG  
TGAAAACCTACAGTGTGGTCTCCTGGGTCCCTCGGAGGGCCAGTCAATTTGAGTTCCACATCCTGTTT  
AAAGCCTTGCCAGAAGGGAAAGTGAGCCCTGATCACCAGCCTCAGCCTCAATATGTGAGCTACAATCAGA  
GCTCTACACACAGTGGGACCTACAGCCTGACACCAAATATGAGATCCACCTGATGAGGGAGAAGGTCTT  
CTTGACCATCTGGCTGTGAAGACTAATGGCACTGGCCCCGTGCGAGTTTCTACTACAGGTAGCTTTGCC  
TCCGAGGGCTGGTTTATCGCCTTTGTGAGTGTATCATTCTTTGCTCCTCATCTGCTCATCTCTGCT  
TCATCAAACGCAGCAAGGGCGGCAAAATTTAGTGAAGGACAAGGAGGCACTCAGGTAGATTCCGAGGC  
CCGGCCCATGAAAGACGAGACCTTCGGCGAGTACAGTACAATGAAGAGAAGGCCTTCGGCAGCAGCCAG  
CCATCTCTCAATGGAGACATCAAACCCCTAGGCAGTGTGACAGTCTGGCTGATTATGGGGCAGTGTGG  
ATGTCCAGTTCAATGAGGATGGCTTTTATCGGCAATACAGTGGCAAAAAGAGAAGGAGGCAGCGGG  
AGGCAATGACAGCTCAGGGGCTACCTCTCTATCAATCCTGCAGTAGCCCTAGAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200937 representing NM\_017345  
 Red=Cloning site Green=Tags(s)

MVVMLWYVPLLLCSPCLLIQIPDEYKGGHVVLEPPVITEQSPRRLVVFPTDDISLKCEARGRPQVEFRWT  
 KDGIFHKPKEELGVVVHEAPYSGSFTIEGNNSFAQRFGQIYRCYASNNLGTAMSHEIQLVAEGAPKWPKE  
 TVKPVVEEGESVVLPCNPPPSAAPLRIYWMNSKILHIKQDERVSMGQNGDLYFANVLTSDNHSDYICNA  
 HFPGTRTIIQKEPIDLRVKPTNSMIDRKPRLLPFTNSSSHLVALQGQSLILECIAEGFPPTTIKWLHPSD  
 PMPTDRVIYQNHKTLQLLNVGEEDDGEYTCLAENSLGSARHAYVYVTEAAPYWLQKPQSHLYGPGETAR  
 LDCQVQGRQPVEVTRWRINGMSIEKVNKDQKYRIEQGSLILSNVQPSDTMVTQCEARNQHGLLLANAYIYV  
 VQLPARILTKDNQTYMAVEGSTAYLLCKAFGAPVPSVQWLDEEGTTVLQDERFFPYANGHLGIRDLQAND  
 TGRYFCQAANDQNNVTILANLQVKEATQITQGPRSTIEKKGARVFTTCQASFDPSLQASITWRGDGRDLQ  
 ERGDSKDYFIEDGQLVIKSLDYSQGDYSCVASTELDEVESRAQLLVGSPGPVPHLELSDRHLLKQSQV  
 HLSWSPAEDHNSPIEKYDIEFEDKEMAPEKWFSLGKVPGNQSTTLKLSYVHYTFRVTAINKYGPGEPS  
 PVSETVVTPEAAPEKNPVDVRGEGNETNNMIVITWKPLRWMDWNAPQIQYRVQWRPLGKQETWKEQTVSDP  
 FLVVSNTSTFVPEIKVQAVNNQKGPPEPQVTIGYSGEDYQVSPLELITIFNSSTVLVWRPVDLAQV  
 KGHLRGNVNTYWWKGSQRKHSKRHVHSHMVPANTTSAILSGLRPYSSYHVEVQAFNGRGLGPASEWTF  
 STPEGVPGHPEALHLECQSDTSLLLHWQPPLSHNGVLTGYLLSYHPLDGESKEQLFFNLSPELRTHNLT  
 NLNPDQLYRFQLQATTHQGPGEAIVREGGTMALFGKPDFGNISVTAGENYSVVSWVPREGQCNRFHILF  
 KALPEGKVPDHPQPQYVSYNQSSYTDLQPDTKYEIHLMREKVLHHLAVKNTGTPVVRVSTTGSFA  
 SEGWFIAFVSAIILLILLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYSNDNEEKAFGSSQ  
 PSLNGDIKPLGSDDSLADYGGSDVDVQFNEDGSFIGQYSGKKEKAAGGNDSSGATSPINPAVALE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

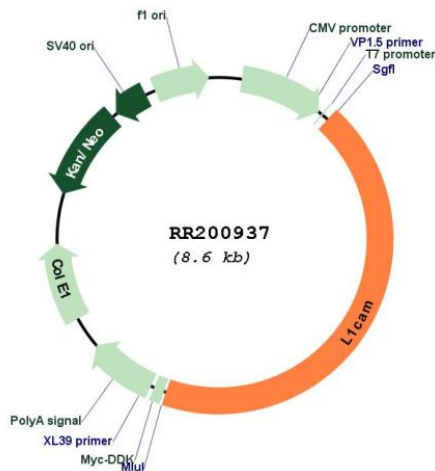
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_017345

ORF Size: 3765 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_017345.1](#), [NP\\_059041.1](#)

RefSeq Size: 5093 bp

RefSeq ORF: 3768 bp

Locus ID: 50687

UniProt ID: [Q05695](#)

**Cytogenetics:** Xq37

**MW:** 140.4 kDa

**Gene Summary:** member of the Ig superfamily of cell adhesion molecules; involved in neuronal cell development; neural cell adhesion molecule expressed in brain; isoform L1cs is a likely alternative splice variant expressed in the peripheral nervous system [RGD, Oct 2007]