

Product datasheet for **SC319023**

CD11a (ITGAL) (NM_001114380) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD11a (ITGAL) (NM_001114380) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD11a
Synonyms:	CD11A; LFA-1; LFA1A
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001114380 edited
 ATGAAGGATTCTGCATCACTGTGATGGCCATGGCGCTGCTGTGGTTCTTTTTCTTC
 GCGCCGGCCTCGAGCTACAACCTGGACGTGCGGGGCGCGGGAGCTTCTCCACCGCGC
 GCCGGGAGGCACTTTGGATACCGCGTCTGCAGGTCGGAACGGGGTCATCGTGGGAGCT
 CCAGGGGAGGGGAACAGCACAGGAAGCCTCTATCAGTGCCAGTCGGGCACAGGACTGCT
 CTGCCAGTCACTGAGAGGTTCCAACATACTCCAAGTACTTGGGAATGACCTTGGCA
 ACAGACCCACAGATGGAAGCATTGTTGTTGCTGCTGTTTCCACAAGCTACAAA
 ACAGAATTTGATTCTCAGATTATGTTAAACGGAAGGACCCTGATGCTGCTGAAGCAT
 GTAAAGCACATGTTGCTGTTGACCAATACCTTTGGTGCCATCAATTATGTCGCGACAGAG
 GTGTTCCGGGAGGAGCTGGGGCCCGCCAGATGCCACCAAAGTCTTATCATCATCAG
 GATGGGGAGGCCACTGACAGTGGCAACATCGATGCGGCCAAAGACATCATCCGCTACATC
 ATCGGGATTGAAAGCATTTCAGACCAAGGAGAGTCAGGAGACCCTCCACAAATTTGCA
 TCAAAACCCGCGAGCGAGTTTGTGAAAATTCTGGACACATTTGAGAAGCTGAAAGATCTA
 TCACTGAGCTGCAGAAGAAGATCTATGTCATTGAGGGCACAAGCAAACAGGACCTGACT
 TCCTTCAACATGGAGCTGTCTCCAGCGGCATCAGTGCTGACCTCAGCAGGGGCCATGCA
 GTCGTGGGGCAGTAGGAGCCAAGGACTGGGCTGGGGCTTTCTTGACCTGAAGGCAGAC
 CTGCAGGATGACACATTTATTGGGAATGAACCATTGACACCAGAAGTGAGAGCAGGCTAT
 TTGGGTTACACCGTGACCTGGCTGCCCTCCCGGCAAAGACTTCGTTGCTGGCCTCGGGA
 GCCCTCGATACCAGCACATGGGCCGAGTGTGCTGTTCCAAGAGCCACAGGGCGGAGGA
 CACTGGAGCCAGTCCAGACAATCCATGGGACCCAGATTGGCTCTTATTTGCGTGGGGAG
 CTGTGTGGCGTCGACGTGGACCAAGATGGGGAGACAGAGCTGCTGCTGATTGGTGCCCA
 CTGTTCTATGGGGAGCAGAGAGGAGGCCGGGTGTTTATCTACCAGAGAAGACAGTTGGGG
 TTTGAAGAAGTCTCAGAGCTGCAGGGGACCCCGCTACCCACTCGGGCGGTTTGGAGAA
 GCCATCACTGCTCTGACAGACATCAACGGCGATGGGCTGGTAGACGTGGCTGTGGGGGCC
 CCTCTGGAGGAGCAGGGGCTGTGTACATCTTCAATGGGAGGCACGGGGGCTTAGTCCC
 CAGCCAAGTCAGCGGATAGAAGGGACCAAGTGTCTCAGGAATTCAGTGGTTTGGACGC
 TCCATCCATGGGGTGAAGGACCTTGAAGGGATGGCTTGGCAGATGTGGCTGTGGGGCT



[View online »](#)

GAGAGCCAGATGATCGTGCTGAGCTCCCGCCCGTGGTGGATATGGTCACCCTGATGTCC
 TTCTCTCCAGCTGAGATCCCAGTGCATGAAGTGGAGTGCTCCTATTCAACCAGTAACAAG
 ATGAAAGAAGGAGTTAATATCACAATCTGTTTCCAGATCAAGTCTCTCATCCCCAGTTC
 CAAGGCCCGCTGGTTGCCAATCTCACTTACACTCTGCAGCTGGATGGCCACCCGACCAGA
 AGACGGGGGTTGTTCCCAGGAGGAGACATGAACTCAGAAGGAATATAGCTGTACCACC
 AGCATGTCATGCAGTACTTCTCATTTTCATTTCCCGGTATGTGTTCAAGACCTCATCTCC
 CCCATCAATGTTTCCCTGAATTTCTCTTTGGGAGGAGGAAGGGACCCGAGGGACCAA
 AGGGCGGGCAAGGACATACCGCCCATCCTGAGACCCTCCCTGCACTCGGAAACCTGGGAG
 ATCCCTTTTGAAGAAGTGTGGGGAGGACAAGAAGTGTGAGGCAAACCTGAGAGTGTC
 TTCTCTCTGCAAGATCCAGAGCCCTGCGTCTAACTGCTTTTGGCAGCCTCTCTGTGGAG
 CTGAGCCTGAGTAACTTGAAGAAGATGCTTACTGGGTCCAGCTGGACCTGCACTTCCCC
 CCGGGACTCTCCTCCGCAAGGTGGAGATGCTGAAGCCCCATAGCCAGATACCTGTGAGC
 TGCGAGGAGCTTCTGAAGAGTCCAGGCTTCTGTCCAGGGCATTATCTTGCAATGTGAGC
 TCTCCCATCTTCAAAGCAGGCCACTCGGTTGCTCTGCAGATGATGTTAATACACTGGTA
 AACAGCTCCTGGGGGACTCGGTTGAATTGCACGCCAATGTGACCTGTAACAATGAGGAC
 TCAGACCTCCTGGAGACAACCTAGCCACTACCATCATCCCATCCTGTACCCCATCAAC
 ATCCTCATCCAGGACCAAGAAGACTCCCACTCTATGTCAGTTTACCCCCAAAGGCCCC
 AAGATCCACCAAGTCAAGCACATGTACCAGGTGAGGATCCAGCCTTCCATCCACGACCAC
 AACATACCCACCTGGAGGCTGTGGTTGGGGTGCACAGCCTCCCAGCGAGGGGCCCATC
 ACACACCAGTGGAGCGTGCAGATGGAGCCTCCCGTGCCCTGCCACTATGAGGATCTGGAG
 AGGCTCCCGGATGCAGCTGAGCCTTGTCTCCCCGAGCCCTGTTCCGCTGCCCTGTTGTC
 TTCAGGCAGGAGATCCTCGTCCAAGTGTGCGGACTCTGGAGCTGGTGGGAGAGATCGAG
 GCCTCTTCCATGTTCCAGCCTCTGCAGCTCCCTCTCCATCTCCTTCAACAGCAGCAAGCAT
 TTCCACCTCTATGGCAGCAACGCCTCCCTGGCCAGGTTGTCATGAAGGTTGACGTGGTG
 TATGAGAAGCAGATGCTCTACCTCTACGTGCTGAGCGGCATCGGGGGGCTGCTGTGCTG
 CTGCTCATTTTTCATAGTCTGTACAAGGTTGGTTTCTTCAAACGGAACCTGAAGGAGAAG
 ATGAGGCTGGCAGAGGTGTCCCGAATGGAATCCCTGCAGAAGACTCTGAGCAGCTGGCA
 TCTGGGCAAGAGGCTGGGGATCCCGGCTGCCTGAAGCCCTCCATGAGAAGGACTCTGAG
 AGTGGTGGTGGCAAGGACTGA

- Restriction Sites:** Please inquire
- ACCN:** NM_001114380
- Insert Size:** 3300 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:** 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_001114380.1](#), [NP_001107852.1](#)

RefSeq Size: 4974 bp

RefSeq ORF: 3261 bp

Locus ID: 3683

UniProt ID: [P20701](#)

Cytogenetics: 16p11.2

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, Viral myocarditis

Gene Summary: ITGAL encodes the integrin alpha L chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form the integrin lymphocyte function-associated antigen-1 (LFA-1), which is expressed on all leukocytes. LFA-1 plays a central role in leukocyte intercellular adhesion through interactions with its ligands, ICAMs 1-3 (intercellular adhesion molecules 1 through 3), and also functions in lymphocyte costimulatory signaling. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks an alternate in-frame segment and uses an alternate in-frame splice junction compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.