

## Product datasheet for **SC326511**

### CD11b (ITGAM) (NM\_001145808) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD11b (ITGAM) (NM\_001145808) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CD11b  
**Synonyms:** CD11B; CR3A; MAC-1; MAC1A; MO1A; SLEB6  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001145808 edited  
 TGGTTCCTCAGTGGTGCCTGCAACCCCTGGTTCACCTCCTTCCAGTTCTGGCTCCTTCC  
 AGCCATGGCTCTCAGAGTCTTCTGTTAACAGCCTTGACCTTATGTCATGGGTTCAACT  
 GGACACTGAAAACGCAATGACCTTCCAAGAGAACGCAAGGGGCTTCGGGCAGAGCGTGGT  
 CCAGCTTCAGGGATCCAGGGTGGTGGTGGAGCCCCCAGGAGATAGTGGCTGCCAACCA  
 AAGGGGACGCTCTACCAGTGCAGTACAGCACAGGCTCATGCGAGCCCATCCGCCTGCA  
 GGTCCCCGTGGAGGCCGTGAACATGTCCCTGGGCTGTCCCTGGCAGCCACCACCAGCCC  
 CCCTCAGCTGCTGGCCTGTGGTCCCACCGTGCACCAGACTTGCAGTGAGAACACGTATGT  
 GAAAGGGCTCTGCTTCTGTTTGGATCCAACCTACGGCAGCAGCCCCAGAAGTCCCAGA  
 GGCCCTCCGAGGGTGTCTCAAGAGGATAGTGACATTGCCTTCTTGATTGATGGCTCTGG  
 TAGCATCATCCCACATGACTTTTCGGCGGATGAAGGAGTTGTCTCAACTGTGATGGAGCA  
 ATTAATAAAGTCCAAAACCTTGTCTCTTTGATGCACTCTGAAGAATTCCGGATTCA  
 CTTTACCTTCAAAGATTCCAGAACAACCCTAACCCAAGATCACTGGTGAAGCCAATAAC  
 GCAGCTGCTTGGGCGGACACACACGGCCACGGGCATCCGCAAAGTGGTACGAGAGCTGTT  
 TAACATCACCAACGGAGCCCCGAAAGATGCCTTTAAGATCCTAGTTGTCATCACGGATGG  
 AGAAAAGTTTGGCGATCCCTTGGGATATGAGGATGTCATCCCTGAGGCAGACAGAGAGGG  
 AGTCATTCGCTACGTCAATGGGGTGGGAGATGCCTTCCGAGTGAGAAAATCCCGCAAGA  
 GCCTTAATACCATCGCATCCAAGCCGCTCGTGATCACGTGTTCCAGGTGAATAACTTTGA  
 GGCTCTGAAGACCATTGAGAACCAGCTTCGGGAGAAGATCTTTGGCATCGAGGGTACTCA  
 GACAGGAAGTAGCAGCTCCTTTGAGCATGAGATGTCTCAGGAAGGCTTCAGCGCTGCCAT  
 CACCTCTAATGGCCCTTGTGAGCACTGTGGGAGCTATGACTGGGCTGGTGGAGTCTT  
 TCTATATACATCAAAGGAGAAAAGCACCTTCATCAACATGACCAGAGTGGATTGAGACAT  
 GAATGATGCTTACTTGGGTTATGCTGCCGCATCATCTTACGGAACCGGGTGCAAAGCCT  
 GGTCTGGGGGCACCTCGATATCAGCACATCGGCCTGGTAGCGATGTTCCAGGCAGAACAC  
 TGGCATGTGGGAGTCCAACGCTAATGTCAAGGGCACCCAGATCGGCGCCTACTTCGGGGC  
 CTCCTCTGCTCCGTGGACGTGGACAGCAACGGCAGCACCGACCTGGTCTCATCGGGC  
 CCCCCATTACTACGAGCAGACCCGAGGGGCCAGGTGTCCGTGTGCCCTTGCCAGGGG



[View online »](#)

GAGGGCTCGGTGGCAGTGTGATGCTGTTCTCTACGGGGAGCAGGGCCAACCCTGGGGCCG  
 CTTTGGGGCAGCCCTAACAGTGTCTGGGGGACGTAATGGGGACAAGCTGACGGACGTGGC  
 CATTGGGGCCCCAGGAGAGGAGGACAACCGGGGTGCTGTTACCTGTTTCACGGAACCTC  
 AGGATCTGGCATCAGCCCTCCCATAGCCAGCGGATAGCAGGCTCCAAGCTCTCTCCAG  
 GCTCCAGTATTTTGGTCAGTCACTGAGTGGGGGCCAGGACCTCACAATGGATGGACTGGT  
 AGACCTGACTGTAGGAGCCCAGGGGCACGTGCTGCTCAGTCCCAGCCAGTACTGAG  
 AGTCAAGGCAATCATGGAGTTCAATCCCAGGGAAGTGGCAAGGAATGTATTTGAGTGTA  
 TGATCAGGTGGTAAAGGCAAGGAAGCCGGAGAGGTGAGAGTCTGCCTCCATGTCCAGAA  
 GAGCACACGGGATCGGCTAAGAGAAGGACAGATCCAGAGTGTGTGACTTATGACCTGGC  
 TCTGGACTCCGGCCGCCACATTCCCGCCCGTCTTCAATGAGACAAAGAACAGCACACG  
 CAGACAGACACAGGTCTTGGGGCTGACCCAGACTTGTGAGACCCTGAAACTACAGTTGCC  
 GAATTGCATCGAGGACCCAGTGAGCCCCATTGTGCTGCGCCTGAACCTCTCTCTGGTGGG  
 AACGCCATTGTCTGCTTTCGGGAACCTCCGGCCAGTGTGGCGGAGGATGCTCAGAGACT  
 CTTACAGCCTTGTTCCTTTGAGAAGAATTGTGGCAATGACAACATCTGCCAGGATGA  
 CCTCAGCATCACCTTCAGTTTCATGAGCCTGGACTGCCTCGTGGTGGGTGGGCCCCGGGA  
 GTTCAACGTGACAGTGTGAGAAATGATGGTGAGGACTCCTACAGGACACAGGTCAC  
 CTCTCTTCCCCTTGACCTGTCTACCGGAAGGTGTCCACGCTCCAGAACACAGCGCTC  
 ACAGCGATCCTGGCGCCTGGCCTGTGAGTCTGCCTCCTCCACCGAAGTGTCTGGGGCCTT  
 GAAGAGCACAGCTGCAGCATAAACCCCATCTTCCCAGAAAACCTCAGAGGTCACCTT  
 TAATATCACGTTTGTAGTACTCTAAGGCTTCCCTTGGAAAACAACTGCTCCTCAAGGC  
 CAATGTGACCAGTGAGAACAATGCCAGAACCAACAAAACCGAATCCAACCTGGAGCT  
 GCCGGTGAATATGCTGTCTACATGGTGGTCACCAGCCATGGGGTCTCCACTAAATATCT  
 CAACTTACGGCCTCAGAGAATACCAGTCGGGTGATGCAGCATCAATATCAGGTCAGCAA  
 CCTGGGGCAGAGGAGCCTCCCCATCAGCCTGGTGTCTTGGTGCCCGTCCGGCTGAACCA  
 GACTGTATATGGGACCGCCCCAGGTCACCTTCTCCGAGAACCTCTCGAGTACGTGCCA  
 CACCAAGGAGCGCTTGCCTCTCACTCCGACTTCTGGCTGAGCTTCGGAAGGCCCCCGT  
 GGTGAACTGCTCCATCGCTGTCTGCCAGAGAATCCAGTGTGACATCCCGTTCTTTGGCAT  
 CCAGGAAGAAATCAATGCTACCCTCAAAGGCAACCTCTCGTTTGACTGGTACATCAAGAC  
 CTCGCATAACCACCTCCTGATCGTGAGCACAGCTGAGATCTTGTTAACGATTCCGTGTT  
 CACCCTGCTGCCGGGACAGGGGGCGTTTGTGAGGTCCCAGACGGAGACCAAGTGGAGCC  
 GTTCGAGGTCCCCAACCCCTGCCGCTCATCGTGGGCAGCTCTGTGGGGGACTGCTGCT  
 CCTGGCCCTCATACCGCCGCGCTGTACAAGCTCGGCTTCTTCAAGCGGCAATACAAGGA  
 CATGATGAGTGAAGGGGTCCCCCGGGGCCGAACCCAGTAGCGGCTCCTTCCCAGACAG  
 AGCTGCCTCTCGGTGGCCAGCAGGACTCTGCCAGACCACACGTAGCCCCAGGCTGCTG  
 GACACGTCCGACAGCGAAGTATCCCCGACAGGACGGGCTTGGGCT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001145808

**Insert Size:**

3700 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 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\\_001145808.1](#), [NP\\_001139280.1](#)

**RefSeq Size:** 4745 bp

**RefSeq ORF:** 3462 bp

**Locus ID:** 3684

**UniProt ID:** [P11215](#)

**Cytogenetics:** 16p11.2

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

**Protein Pathways:** Cell adhesion molecules (CAMs), Hematopoietic cell lineage, Leukocyte transendothelial migration, Regulation of actin cytoskeleton

**Gene Summary:**

This gene encodes the integrin alpha M 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 a leukocyte-specific integrin referred to as macrophage receptor 1 ('Mac-1'), or inactivated-C3b (iC3b) receptor 3 ('CR3'). The alpha M beta 2 integrin is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.