

## Product datasheet for **SC337240**

### CD18 (ITGB2) (NM\_001303238) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD18 (ITGB2) (NM_001303238) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITGB2
Synonyms:	CD18; LAD; LCAMB; LFA-1; MAC-1; MF17; MFI7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001303238, the custom clone sequence may differ by one or more nucleotides

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ATGAGGGGCTGTGCGGCTGACGACATCATGGACCCACAAGCCTCGCTGAAACCCAGGAAGACCACAATG
GGGGCCAGAAGCAGCTGTCCCCAAAAAGTGACGCTTTACCTGCGACCAGGCCAGGCAGCAGCGTTCAA
CGTGACCTTCCGGCGGGCCAAGGGCTACCCCATCGACCTGTACTATCTGATGGACCTCTCCTACTCCATG
CTTGATGACCTCAGGAATGTCAAGAAGCTAGGTGGCGACCTGCTCCGGGCCCTCAACGAGATCACCAGAT
CCGGCCGCATTGGCTTCGGGTCCTTCGTGGACAAGACCGTGCTGCCGTTTCGTGAACACGCACCCTGATAA
GCTGCGAAACCCATGCCCAACAAGGAGAAAGAGTGCCAGCCCCGTTTGCCTTCAGGCAGTGCTGAAG
CTGACCAACAACCTCAACAGTTTCAGACCGAGGTGCGGAAGCAGCTGATTTCCGAAACCTGGATGCAC
CCGAGGGTGGGCTGGACGCCATGATGCAGGTGCGCCGCTGCCGGAGGAAATCGGCTGGCGCAACGTCAC
GCGGCTGCTGGTGTTCGACTGATGACGGCTCCATTTCCGGGGCAGCGGAAGCTGGGCGCCATCCTG
ACCCCAACGACGCGCTGTACCTGGAGGACAATTGTACAAGAGGAGCAACGAATTCGACTACCCAT
CGGTGGGCCAGCTGGCGACAAGCTGGTGAAAACAACATCCAGCCATCTTCGCGGTGACCAGTAGGAT
GGTGAAGACCTACGAGAACTCACCAGATCATCCCAAGTCAGCCGTGGGGGAGCTGTCTGAGGACTCC
AGCAATGTGGTCCATCTCATTAGAATGCTTACAATAAATCTCCTCCAGGGTCTTCTGGATCACAACG
CCCTCCCCGACACCCTGAAAGTCACCTACGACTCCTTCTGCAGCAATGGAGTGACGCACAGGAACCAGCC
CAGAGGTGACTGTGATGGCGTGCAGATCAATGTCCCGATCACCTTCCAGGTGAAGTCCAGGCCACAGAG
TGCATCCAGGAGCAGTCGTTTGTATCCGGGCGCTGGGCTTACGGACATAGTGACCGTGCAGGTTCTTC
CCCAGTGTGAGTGCCGGTGCCGGGACCAGAGCAGAGACCCGACGCTTCCCATGGCAAGGGCTTCTTGA
GTGCGGCATCTGCAGGTGTGACACTGGCTACATTGGGAAAAACTGTGAGTGCCAGACACAGGGCCGGAGC
AGCCAGGAGCTGGAAGGAAGCTGCCGGAAGGACAACAACCTCCATCATCTGCTCAGGGCTGGGGGACTGTG
TCTGCGGGCAGTGCCTGTGCCACACCAGCGACGTCGCCGCAAGCTGATATACGGGCAGTACTGCGAGTG
TGACACCATCAACTGTGAGCGCTACAACGGCCAGGTCTGCGGCGGCCCGGGGAGGGGCTCTGCTTCTGC
GGGAAGTGCCGCTGCCACCCGGGCTTTGAGGGCTCAGCGTGCCAGTGCGAGAGGACCACTGAGGGCTGCC
TGAACCCGCGCGTGTGAGTGTAGTGGTCTGGCCGGTGCCGCTGCAACGTATGCGAGTGCCATTACAGG
CTACCAGTGCCTCTGTGCCAGGAGTGCCCGGCTGCCCTCACCTGTGGCAAGTACATCTCCTGCGCC
GAGTGCCTGAAGTTCGAAAAGGGCCCTTTGGGAAGAACTGCAGCGCGCGTGTCCGGGCTGCAGCTGT
CGAACAACCCGTGAAGGGCAGGACCTGCAAGGAGAGGGACTCAGAGGGTGTGGTGGCTACACGCT
GGAGCAGCAGGACGGGATGGACCCTACCTCATCTATGTGGATGAGAGCCGAGAGTGTGTGGCAGGCCCC
AACATCGCCGCCATCGTGGGGGACCGTGGCAGGCATCGTGCTGATCGGCATTCTCCTGCTGGTACATCT
GGAAGGCTCTGATCCACCTGAGCGACCTCCGGGAGTACAGGCGCTTTGAGAAGGAGAAGCTCAAGTCCCA
GTGGAACAATGATAATCCCTTTTCAAGAGCGCCACCACGACGGTTCATGAACCCCAAGTTTCTGAGAGT
TAG
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001303238

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001303238.1, NP_001290167.1</u>
<b>RefSeq Size:</b>	2928 bp
<b>RefSeq ORF:</b>	2103 bp
<b>Locus ID:</b>	3689
<b>UniProt ID:</b>	<u>P05107</u>
<b>Cytogenetics:</b>	21q22.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, Viral myocarditis
<b>Gene Summary:</b>	<p>This gene encodes an integrin beta chain, which combines with multiple different alpha chains to form different integrin heterodimers. Integrins are integral cell-surface proteins that participate in cell adhesion as well as cell-surface mediated signalling. The encoded protein plays an important role in immune response and defects in this gene cause leukocyte adhesion deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]</p> <p>Transcript Variant: This variant (3) has a shorter 5' UTR, uses an alternate splice site in the 5' region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1.</p>