

## Product datasheet for **SC119041**

### CD2 (NM\_001767) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD2 (NM_001767) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD2
Synonyms:	LFA-2; SRBC; T11
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene sequence for NM\_001767 edited  
 GAATTCGGCACGAGGCCAACCCCTAAGATGAGCTTTCATGTAAATTTGTAGCCAGCTTC  
 CTTCTGATTTTCAATGTTTCTTCCAAAGGTGCAGTCTCCAAAGAGATTACGAATGCCTTG  
 GAAACCTGGGGTGCCTTGGGTGAGGACATCAACTTGGACATTCCTAGTTTTCAAATGAGT  
 GATGATATTGACGATATAAAATGGGAAAAAACTTCAGACAAGAAAAAGATTGCACAATTC  
 AGAAAAAGAGAAAGAGACTTCAAGGAAAAAGATACATATAAGCTATTTAAAAATGGAAT  
 CTGAAAAATTAAGCATCTGAAGACCGATGATCAGGATATCTACAAGTATCAATATATGAT  
 AAAAAAGGAAAAATGTGTTGGAAAAAATATTTGATTTGAAGATTCAAGAGAGGGTCTCA  
 AAACCAAAGATCTCCTGGACTTGTATCAACACAACCCTGACCTGTGAGGTAATGAATGGA  
 ACTGACCCCGAATTAACCTGTATCAAGATGGGAAACATCTAAAACCTTCTCAGAGGGTC  
 ATCACACACAAGTGGACCACCAGCTGAGTGCAAAATCAAGTGCACAGCAGGGAACAAA  
 GTCAGCAAGGAATCCAGTGTGAGCCTGTGAGTGTCCAGAGAAAGGTCTGGACATCTAT  
 CTCATCATTGGCATATGTGGAGGAGGCAGCCTCTTGATGGTCTTTGTGGCACTGCTCGTT  
 TTCTATATCACCAAAAGGAAAAAACAGAGGAGTCCGAGAAATGATGAGGAGCTGGAGACA  
 AGAGCCCACAGAGTAGCTACTGAAGAAAGGGCCGGAAGCCCCACCAAATCCAGCTTCA  
 ACCCCTCAGAATCCAGCAACTTCCAACATCCTCCTCCACCACCTGGTCACTCGTTCCAG  
 GCACCTAGTCATCGTCCCCCGCCTCCTGGACACCGTGTTCAGCACCAGCCTCAGAAGAGG  
 CCTCCTGCTCCGTGGGCACACAAGTTCACCAGCAGAAAGGCCCGCCCTCCCCAGACCT  
 CGAGTTCAGCCAAAACCTCCCCATGGGGCAGCAGAAAACTCATTGTCCCTTCTCTAAT  
 TAAAAAGATAGAACTGTCTTTTTCAATAAAAAGCACTGTGGATTTCTGCCCTCCTGAT  
 GTGCATATCCGTACTTCCATGAGGTGTTTTCTGTGTGCAGAACATTGTCACTCCTGAGG  
 CTGTGGGCCACAGCCACCTCTGCATCTTGAAGTCAAGCAATGTGGTCAACATCTGGAGTT  
 TTTGGTCTCCTCAGAGAGCTCCATCACACCAGTAAGGAGAAAGCAATATAAGTGTGATTGC  
 AAGAAATGGTAGAGGACCGAGCACAGAAATCTTAGAGATTTCTTGCCCTCTCAGGTCAT  
 GTGTAGATGCGATAAATCAAGTATTGGTGTGCCTGGGTCTCACTACAAGCAGCCTATCT  
 GCTTAAGAGACTCTGGAGTTTCTTATGTGCCCTGGTGGACACTTGCCACCATCCTGTGA  
 GTAAAAGTGAATAAAAGCTTTGACTAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAA  
 AAAAAAAAAAAAAAAAAAACTCGAC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001767 unedited  
 GGATTTTGTAAATACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGCCAACCCCTA  
 AGAGAGCTTTCCATGTAAATTTGTAGCCAGCTTCTTCTGATTTTCAATGTTTCTTCCAA  
 AGGTGCAGTCTCCAAAGAGATTACGAATGCCTTGGAAACCTGGGGTGCCTTGGGTGAGGA  
 CATCAACTTGGACATTCCTAGTTTTCAAATGAGTATGATATTGACGATATAAAATGGGA  
 AAAAATTCAGACAAGAAAAAGATTGCACAATTCAGAAAAAGAGAAAGAGACTTTCAAGGA  
 AAAAGATACATATAAGCTATTTAAAAATGGAATCTGAAAAATTAAGCATCTGAAGACCGA  
 TGATCAGGATATCTACAAGGTATCAATATATGATACAAAAGGAAAAATGTGTTGGAAAA  
 AATATTTGATTTGAAGATTCAAGAGAGGGTCTCAAACCAAAGATCTCCTGGACTTGTAT  
 CAACACAACCCTGACCTGTGAGGTAATGAATGGAATGACCCCGAATTAACCTGTATCA  
 AGATGGGAAACATCTAAAACCTTCTCAGAGGGTCAACACACAAGTGGACCACCAGCCT  
 GAGTGCAAAATCAAGTGCACAGCAGGGAACAAAGTCAAGCAAGGAATCCAGTGTGAGCC  
 TGTGAGTGTCCAGAGAAAGGTCTGGACATCTATCTCATCATTGGCATATGTGGAGGAGG  
 CAGCCTCTTGATGGTCTTTGTGGCACTGCTCGTNTCTATATCACCAAAAGGAANANACA  
 GAGAGTCCGAGAAATGATGANGAGCTGGGAGACAGAGCCACAGAGTAGCTACTGAGAAAGG  
 GNGCCNAGCCCAATTCAGCTTACCCCTCAGATCCAGCACTTCCNACATNNCTCT  
 NNCACACTGNNTCATCGTCCCAGCACCTAGTCATCGTCCCCCGCTCTGGACACCGTGNTC  
 AGCACAGNCTCAGAGAGGCTCC

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001767 unedited GATTTTCAGACTTTTTTTCACTTTTACTCACAGNAGGTGGGCAAGTGTCCACCAGGGCACA TAAGAACTCCANAGTCTCTTAAGCAGATAGGCTGCTTGTAGTGAGACCCAGGCACACCA ATCACTTGATTTATCGCATCTACACATGACCTGAGAGGGGACAAGAAATCTCTAAGATTT CTGTGCTCGGTCTCTACCATTCTTGAATCACACTTATATTGCTTCTCCTTACTGGTGT GATGGAGCTCTCTGAGGAGACCAAAAACTCCAGATGTTGACCACATGGCTGAGTTCGAAG ATGCAGAGGTGGCTGTGGCCACAGCCTCAGGAGGTGACAATGTTCTGCACACAGAAAAAC ACCTCATGGAAGTACGGATATGCACATCAGGAGGGCAGAAATCCACAGTGCTTTTTATTG AAAAAGACAGTTTCTATCTTTTTTAATTAGAGGAAGGGGACAATGAGTTTTCTGTGCC CATGGGGAGGTTTTGGCTGAACCTCGAGGTCTGGGGAGGGGCGGGCCTTTCTGCTGGTGAA CTTGTGTGCCCGACGGAGCAGGAGGCCTCTTCTGAGGCTGGTGTGAACACGGTGTCCAG GAGGCGNGGACGATGACTAGGTGCCTGGGAACGATGACCAGGTGGTGGAGGAGGATGTT GGGAAGTTGCTGGATTCTGAGGGTTGAAGCTGGAATTTGGTGGGGCTTCCGGCCCTTT CTTCAGTAGCTACTCTGTGGCTCTTGTCTCCAGCTCCTCATTTTCTCCGACTCCTCT GTTTTTCTTTTTGGTGATATAGAAAACGAGCAGTGCCACANAGACCATCAAGAGGCTGC CCTCCTCCATATGCCAATGATGAGATAGATGTCCAGACCTTTCTCTGGACAGCTGACAGG CTCGACACTGGATTCCCTGCTGACNNTTGTCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001767
<b>Insert Size:</b>	1640 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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><a href="#">NM_001767.2</a></u> , <u><a href="#">NP_001758.1</a></u>
<b>RefSeq Size:</b>	1579 bp
<b>RefSeq ORF:</b>	1056 bp
<b>Locus ID:</b>	914
<b>UniProt ID:</b>	<u><a href="#">P06729</a></u>
<b>Cytogenetics:</b>	1p13.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane

**Protein Pathways:**

Cell adhesion molecules (CAMs), Hematopoietic cell lineage

**Gene Summary:**

The protein encoded by this gene is a surface antigen found on all peripheral blood T-cells. The encoded protein interacts with LFA3 (CD58) on antigen presenting cells to optimize immune recognition. A locus control region (LCR) has been found in the 3' flanking sequence of this gene. [provided by RefSeq, Jun 2016]

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