

## Product datasheet for **SC128181**

### ICAM3 (NM\_002162) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ICAM3 (NM_002162) Human Untagged Clone
Tag:	Tag Free
Symbol:	ICAM3
Synonyms:	CD50; CDW50; ICAM-R
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC128181 sequence for NM\_002162 edited (data generated by NextGen Sequencing)

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ATGGCCACCATGGTACCATCCGTGTTGTGGCCAGGGCCTGCTGGACTCTGCTGGTCTGC
TGTCTGCTGACCCAGGTGTCCAGGGCAGGAGTTCCTTTGCGGGTGGAGCCCAGAAC
CCTGTGCTCTCTGCTGGAGGGTCCCTGTTTGTGAAGTGCAGTACTGATTGCCCAGCTCT
GAGAAAATCGCCTTGAGACGTCCCTATCAAAGGAGCTGGTGGCCAGTGGCATGGGCTGG
GCAGCCTTCAATCTCAGCAACGTGACTGGCAACAGTCGGATCCTCTGCTCAGTGTACTGC
AATGGCTCCCAGATAACAGGCTCCTCTAACATCACCGTGTACAGGCTCCCGGAGCGTGTG
GAGCTGGCACCCCTGCCTCCTTGGCAGCCGGTGGGCCAGAACTTACCCTGCGCTGCCAA
GTGGAGGATGGGTGCGCCCGGACCAGCCTCACGGTGGTGTCTCGCTGGGAGGAGGAG
CTGAGCCGGCAGCCCGCAGTGGAGGAGCCAGCGGAGGTCCTGCCACTGTGCTGGCCAGC
AGAGACGACCACGGAGCCCTTTCTCATGCCGCACAGAACTGGACATGCAGCCCCAGGGG
CTGGGACTGTTTCGTGAACACCTCAGCCCCCGCCAGTCCGAACCTTTGTCTGCCCGTG
ACCCCCCGCGCCTCGTGGCCCCCGTCTTGGAGGTGAAACGTCGTGGCCGGTGGAC
TGCACCCTAGACGGGCTTTTCCAGCCTCAGAGGCCAGGTCTACCTGGCCTGGGGGAC
CAGATGCTGAATGCGACAGTCAATGAACACGGGGACACGCTAACGGCCACAGCCACAGCC
ACGGCGCGCGCGGATCAGGAGGGTGCCTGGGAGATCGTCTGCAACGTGACCTAGGGGGC
GAGAGACGGGAGGCCCGGAGAATTGACGGTCTTTAGCTTCTAGGACCCATTGTGAAC
CTCAGCGAGCCACCGCCATGAGGGGTCCACAGTACCGTGTGAGTTGCATGGCTGGGGCT
CGAGTCCAGGTACGCTGGACGGAGTTCGGGCCGCGGCCCGGGGAGCCAGCTCAACTT
CAGCTAAATGCTACCGAGAGTACGACGGACGCAGCTTCTTCTGCACTGCCACTCTCGAG
GTGGAGCGCGAGTCTTGCACAGGAACAGTAGCGTCCAGTCCGAGTCCGTGTATGGTCCC
AAAATTGACCCAGCCACATGCCCCAGCACTTGAATGGAAGATAAAAACGAGACACGTC
CTGCAGTGCCAAGCCAGGGCAACCCGTACCCCGAGCTGCGGTGTTTGAAGGAAGGCTCC
AGCCGGGAGGTGCGCGTGGGGATCCCGTCTTCTGTCACGTAACACATAATGGTACTTAT
CAGTGCCAAGCGTCCAGCTCACGAGGCAAATACACCCTGGTGTGGTGTGATGGACATTGAG
GCTGGGAGCTCCCACTTTGTCCCGTCTTCTGTCGGTGTACTGACCCTGGGCGTGGT
ACTATCGTACTGGCCTTAATGTACGTCTTCCAGGGAGCACCAACGGAGCGGAGTTACCAT
GTTAGGGAGGAGACACCTATCTGCCCTCACGTCTATGCAGCCGACAGAAGCAATGGGG
GAAGAACCGTCCAGAGCTGAGTGA
    
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Clone variation with respect to NM\_002162.3  
309 t=>c

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002162 unedited

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GATTTTGTAAATACGACTCACTATAGGGCGCCGGAATTCGGCACAGGGACCTTCTCT
GTCAGAAATGGCCACCATGGTACCATCCGTGTTGTGGCCAGGGCCTGCTGGACTGCTG
GTCTGTGTCTGCTGACCCAGGTGTCCAGGGGACAGGAGTTCCTTTGCGGGTGGAGCCC
CAGAACCCTGTGCTCTCTGCTGGAGGGTCCCTGTTTGTGAAGTGCAGTACTGATTGTCCC
AGCTCTGAGAAAATCGCCTTGAGACGTCCCTATCAAAGGAGCTGGTGGCCAGTGGCATG
GGCTGGGACGCTTCAATCTCAGCAACGTGACTGGCAACAGTCGGATCCTCTGCTCAGTG
TACTGCAATGGCTCCCAGATAACAGGCTCCTCTAACATCACCGTGTACAGGCTCCCGGAG
CGTGTGGAGCTGGCACCCCTGCCTCCTTGGCAGCCGGTGGCCAGAACTTACCCTGCGC
TGCCAAGTGGAGGATGGGTGCCCCGGACCAGCCTCACGGTGGTGTGTTTCGCTGGGAG
GAGGAGCTGAGCCGGCAGCCCGCAGTGGAGGAGCCAGCGGAGTCACTGCCACTGTGCTG
GCCAGCAGAGACGACCAGGAGCCCTTTCTCATGCCGCACAGAACTGGACATGCAGCCC
CAGGGGCTGGGACTGTTCTGTGACACCCTCAGCCCCCGCCAGCTCCGAACCTTTGTCTG
CCCCGTGACCCCGCGCCTCGTGGCCCCCGGNTCTTGGAGGTGAAACGTCGTGGCCG
GTGGACTGCACCCANACGGGGCTTTCTCGCCTCAGAGCCAGTCTACCTGCGCTGNGG
GACAGATGCTGATGCGACAGTCAAGACCCAGGGACACGCTACGGGCCAGNCCAGCCACG
CGCGCGGATAAGAGGTGCCCGGAGATCGTGCACGGACCTAGGGCNAAAACACGGAGCC
CGGAGACTGACGTT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002162 unedited TAGCTTGNACC GCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTAGGGAGTT TGAAGGCTTTATTGGTGCGGAATCTGAGGGCACAGCCAAGCCCCGCAACTTTGATCCC GGATCCCAGCGTCACTCAGCTCTGGACGGTTCTTCCCCATTGCTTCTGTCTGGCTGCATA GACGTGAGGGGCAGATAGGTGCTCTCCTCCCTAACATGGTAACTGCCGCTCCGTTGGTGC TCCCTGAAGACGTACATTAAGGCCAGTACGATAGTCACCACGCCAGGGTCAGTAACACC GCCACGAAGACGGGGACAAAGTGGGAGCTCCCAGCCTCAATGTCCATCACCACGACCAGG GTGATTTTGCCTCGTGAGCTGGACGCTTGGCACTGATAAGTACCATTATGTGTTACGTTG ACGAAGAACGGGATCCCCACCGCACCTCCCGGCTGGAGCCTTCTTCAAACACCGCAGC TCGGGGTACGGGTTGCCCTGGCTTGGCACTGCAGGACGTGTCTCGTTTTATCTTTCCAT TTCAAGTGTGGGGCATGTGGCTCGGTCAATTTGGGACCATACAGGACTCGCAGCTGG ACGCTACTGTTTCTGTGCAAGAAGTCCGCTCCACCTCGAGAGTGGCACTGCAGAAGAAG CTGCGTCCGTCGTCCTCTCGGTAGCATTTAGCTGAAATTGAGCTGGCTGCCCGGGCCG CGGCCGGGACTCCGTCAGCGTGACCTGGACTCGAGCCCAGCCATGCAACTCACGGTCA CTGTGGACCCCTCATGGGCGGTGGGCTCGCTGAGGTTTACAATGGTCTAGGAAACC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002162
<b>Insert Size:</b>	1900 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_002162.2</a></u> , <u><a href="#">NP_002153.1</a></u>
<b>RefSeq Size:</b>	1824 bp
<b>RefSeq ORF:</b>	1644 bp
<b>Locus ID:</b>	3385
<b>UniProt ID:</b>	<u><a href="#">P32942</a></u>
<b>Cytogenetics:</b>	19p13.2
<b>Domains:</b>	ig, IG, ICAM_N
<b>Protein Families:</b>	ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs)

**Gene Summary:**

The protein encoded by this gene is a member of the intercellular adhesion molecule (ICAM) family. All ICAM proteins are type I transmembrane glycoproteins, contain 2-9 immunoglobulin-like C2-type domains, and bind to the leukocyte adhesion LFA-1 protein. This protein is constitutively and abundantly expressed by all leucocytes and may be the most important ligand for LFA-1 in the initiation of the immune response. It functions not only as an adhesion molecule, but also as a potent signalling molecule. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2016]  
Transcript Variant: This variant (1) encodes the longest isoform (1).