

## Product datasheet for **SC122533**

### CD1 (CD1A) (BC031645) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD1 (CD1A) (BC031645) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD1
Synonyms:	CD1; CD1A antigen; CD1A antigen, a polypeptide; cluster of differentiation 1 A; cortical thymocyte antigen CD1A; differentiation antigen CD1-alpha-3; FCB6; HTA1; OTTHUMP00000018907; R4; T-cell surface antigen T6/Leu-6; T-cell surface glycoprotein CD1a; T6
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 BC031645 edited  
 CAAGATCTTCATTGCTCATCAGAGGATTCCGGCGAGGGTCTCGCTCTGTGCAAGTGGTGTG  
 ATCTTGGCTCACTTTAGCCTCAACCTCCCGAGTAGCTGGGATTACAGATGTGACTTGCTC  
 CTCCTTGCACTTCTGCCATGATTTGAGGCTCCTCAGCCATGTGGAAGTGGCTCAAGGAG  
 CCTCTCTCCTCCATGTCATCTGGATCGCATCCTTTTACAACCATTCTGGAAACAAAAT  
 CTGGTCTCAGGTTGGCTGAGTGATTTGCAGACTCATACCTGGGACAGCAATCCAGCACC  
 ATCGTTTTCTGTGGCCCTGGTCCAGGGAAACTTCAGCAATGAGGAGTGAAGGAACTG  
 GAAACATTATTCCGTATACGCACCAATTCGGTCATTTGAGGGAATTCGTAGATACGCCAT  
 GAATTGCAGTTTGAATATCCTTTTGTAGATACAGGTGACAGGAGGCTGTGAGCTGCACTCT  
 GGAAAGGTCTCAGGAAGCTTCTTGCAGTTAGCTTATCAAGGATCAGACTTTGTGAGCTTC  
 CAGAACAATTCATGGTTGCCATATCCAGTGGCTGGGAATATGGCCAAGCATTCTGCAAA  
 GTGCTCAATCAGAATCAGCATGAAAATGACATAACACACAATCTTCTCAGTGACACCTGC  
 CCACGTTTCATCTGGGTCTTCTTGTATGCAGGAAAGGCACATCTCCAGCGGCAAGTGAAG  
 CCCGAGGCTGGCTGTCCATGGCCCCAGTCTGGCCCTGGCCATCTGCAGCTTGTGTGC  
 CATGTCTCAGGATTCTACCCAAAGCCCGTGTGGGTGATGTGGATGCGGGGTGAGCAGGAG  
 CAGCAGGGCACTCAGCGAGGGGACATCTTGCCAGTGTGATGGGACATGGTATCTCCGC  
 GCAACCTGGAGGTGGCCGCTGGGGAGGAGCTGACCTGTCTGTGGGTGAAGCACAGC  
 AGTCTAGAGGGCCAGGACATCGTCTCTACTGGGAGCATCACAGTTCCGTGGGCTTCATC  
 ATCTTGGCGGTGATAGTGCCTTACTTCTTCTGATAGGTCTTGGCTTTGGTTACAGGAA  
 CGCTGTTTCTGTTAAGACACACCATGAGCCTCCTCGTCAACCTTCTCCTTTTGGGGTGA  
 AGACCAGCAGCCCAAGGGCTCCAGACACACCTGAACACATCGTGATGATGACGTCCTCTC  
 AACTCTCTTTGTAATAATTTTGTATTTTGTCTGTTTCTGATTAATGATTGTTTGTCAA  
 TATAAGCTCAATTTAATTTTGCAGGATTTGTTGTTCTGACCTGGGTTCTGGGACTTTTAA  
 ATTCAAATTTTATCTCCAGATGGAATGGGTCCTAGCAACCTCCACATGTTCAACTATTA  
 ATGGATCATCAGGCTGTTTTAGATATCCCTTACTCCAGAGGGCCTTCCCTGACTTACAA  
 GTGGGAAGCAGTCTTCTTGGTCTGAACTCCCGCCACATTTTAGCCGTAATTTGCTAAC  
 TGTGCTCCTCACTTCTTCTTTCATTGCAGTTATTTAGATCCCCCTTCTTCTAATT  
 TTTAGCTCCTTCAATGCAAAGTACATGATTTTTAATATATGCATCCCTGGTGAAGGAT  
 CTTGCCTGCATGAAACATGTTCTCAATAAAACTCTGTGTTGAATTTATAAAAAAAAAAAAA  
 AA

**5' Read Nucleotide Sequence:** >OriGene 5' read for BC031645 unedited  
 NGGTCACCAATTTGTATACGACTCATATAGGCGGCCGCGNATTCANATCTGGTACCGGTG  
 CGGAATCCCGGGATCAAGATCTTCATTGCTCATCAGAGGATTCCGGCGAGGGTCTCGCT  
 CTGTGCAAGTGGTGTGATCTTGGCTCACTTTAGCCTCAACCTCCCGAGTAGCTGGGATTAC  
 AGATGTGACTTGCTCCTCCTTGCAATTCGCCATGATTTTGTAGGCTCCTCAGCCATGTGG  
 AACTGGCTCAAGGAGCCTCTCTCCTTCCATGTCATCTGGATCGCATCCTTTTACAACCAT  
 TCCTGGAAACAAAATCTGGTCTCAGGTTGGCTGAGTGATTTGCAGACTCATACCTGGGAC  
 AGCAATCCAGCACCATCGTTTTCTGTGGCCCTGGTCCAGGGGAAACTTCAGCAATGAG  
 GAGTGAAGGAACTGGAAACATTATCCGTATACGCACCAATTCGGTCATTTGAGGGAATT  
 CGTAGATACGCCATGAATTGCAGTTTGAATATCCTTTTGTAGATACAGGTGACAGGAGGC  
 TGTGAGCTGCACTCTGGAAGGTCTCAGGAAGCTTCTTGCAGTTAGCTTATCAAGGATCA  
 GACTTTTGTGAGCTTCCAGAACAATTCATGGTTGCCATATCCAGTGGCTGGGAATATGGCC  
 AAGCATTCTGCAAAGTGTCAATCAGAATCAGCATGAAAATGACATAACACACAATCTT  
 CTCAGTGACACCTGCCACGTTTCATCTTGGTCTTCTGATGCANGAAAAGCACATCTC  
 CAGCGCAAGTGAAGCCCGAGGCTGGCTGTCCATGGCCCCAGTCTGCCCTGCCATC  
 TGCAGCTTGTGTGCCATGTCTCANGATTCTACCCAAAGCCGTGTGGGTGATGTGGATGC  
 CGNGTGAGCAAGAGCANC

**Restriction Sites:** Please inquire

**ACCN:** BC031645

<b>Insert Size:</b>	1800 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>	<a href="#">BC031645.1</a> , <a href="#">AAH31645.1</a>
<b>RefSeq Size:</b>	1739 bp
<b>RefSeq ORF:</b>	933 bp
<b>Locus ID:</b>	909
<b>Cytogenetics:</b>	1q23.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Hematopoietic cell lineage
<b>Gene Summary:</b>	This gene encodes a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes to the plasma membrane and to recycling vesicles of the early endocytic system. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]