

## Product datasheet for **SC303066**

### CD1B (NM\_001764) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD1B (NM_001764) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD1B
Synonyms:	CD1; CD1A; R1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303066 representing NM_001764. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCTGCTGCCATTTCAACTGTTAGCTGTTCTCTTTCTGGTGGTAACAGTGAACATGCCTTCCAG
GGGCCGACCTCCTTTTCATGTTATCCAGACCTCGTCCTTTACCAATAGTACCTGGGCACAACTCAAGGC
TCAGGCTGGTGGATGATTTGCAGATTCATGGCTGGGATAGCGACTCAGGCACTGCCATATTCCTGAAG
CCTTGGTCTAAAGGTAACTTTAGTGATAAGGAGGTTGCTGAGTTAGAGGAGATATCCGAGTCTACATC
TTTGGATTCGCTCGAGAAGTACAAGACTTTGCCGGTATTCCAGATGAAATACCCCTTTGAGATCCAG
GGCATAGCAGGCTGTGAGCTACATTCGGAGGTGCCATAGTAAGCTTCTGAGGGGAGCTCTAGGAGGA
TTGGATTTCTGAGTGTCAAGAATGCTTTCATGTGTGCCTTCCCCAGAAGGTGGCAGCAGGGCACAGAAA
TTCTGTGCACTAATCATACAATATCAAGGTATCATGAAACTGTGAGAATTCTCCTCTATGAAACCTGC
CCCCGATATCTTTGGCGTCTCAATGCAGGAAAAGCAGATCTGCAAAGACAAGTGAAGCCTGAGGCC
TGGCTGTCCAGTGGCCCCAGTCTGGACCTGGCCGTCTGCAGCTTGTGTGCCATGTCTCAGGATTCTAC
CCAAAGCCCGTGTGGGTGATGTGGATGCGGGGTGAGCAGGAGCAGCAGGGCACTCAGCTAGGGGACATC
CTGCCAATGCTAACTGGACATGGTATCTCCGAGCAACCTGGATGTGGCAGATGGGAGGCGGCTGGC
CTGTCTGTGCGGTGAAGCACAGCAGTTTAGAGGGCCAGGACATCATCTACTGGAGAAACCCACC
TCCATTGGCTCAATTGTTTTGGCAATAATAGTGCCTTCTTGTCTCTTTTGTCTATGCCTTGCAATTATGG
TATATGAGGCGCCGGTCAATATCAGAATATCCCATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001764
Insert Size:	1002 bp



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<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>OTI Annotation:</b>	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
<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="#">NM_001764.1</a>
<b>RefSeq Size:</b>	1396 bp
<b>RefSeq ORF:</b>	1002 bp
<b>Locus ID:</b>	910
<b>UniProt ID:</b>	<a href="#">P29016</a>
<b>Cytogenetics:</b>	1q23.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Hematopoietic cell lineage
<b>MW:</b>	36.9 kDa
<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 late endosomes and lysosomes via a tyrosine-based motif in the cytoplasmic tail, and requires vesicular acidification to bind lipid antigens. [provided by RefSeq, Jul 2008]