

Product datasheet for **SC128240**

CD1 (CD1D) (NM_001766) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD1 (CD1D) (NM_001766) Human Untagged Clone
Tag: Tag Free
Symbol: CD1
Synonyms: CD1A; R3; R3G1
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001766 edited
 ATGGGGTGCCTGCTGTTTCTGCTGCTCTGGGCGCTCCTCCAGGCTTGGGAAGCGCTGAA
 GTCCCGCAAAGGCTTTTCCCCCTCCGCTGCCTCCAGATCTCGTCCTTCGCCAATAGCAGC
 TGGACGCGCACCCGACGGCTTGGCGTGGCTGGGGAGCTGCAGACGCACAGCTGGAGCAAC
 GACTCGGACACCGTCCGCTCTCTGAAGCCTTGGTCCCAGGGCACGTTACGCGACCAGCAG
 TGGGAGACGCTGCAGCATATATTTGGGTTTATCGAAGCAGCTTACCAGGGACGTGAAG
 GAATTCGCCAAAATGCTACGCTTATCCTATCCCTTGGAGCTCCAGGTGTCGCTGGCTGT
 GAGGTGCACCCTGGGAACGCCTCAAATAACTTCTTCCATGTAGCATTTCAAGGAAAAGAT
 ATCCTGAGTTTCCAAGGAACTTCTTGGGAGCCAACCCAAGAGGCCCACTTTGGGTAAC
 TTGGCCATTCAAGTGCTCAACCAGGACAAGTGGACGAGGAAACAGTGCAGTGGCTCCTT
 AATGGCACCTGCCCCAATTTGTCAGTGGCCTCCTTGAGTCAGGGAAGTCGGAAGTGAAG
 AAGCAAGTGAAGCCAAGGCCTGGCTGTCCCGTGGCCCAAGTCCCTGGCCCTGGCCGCTG
 CTGCTGGTGTGCCATGTCTCAGGATTCTACCCAAAGCCTGTATGGGTGAAGTGGATGCGG
 GGTGAGCAGGAGCAGCAGGGCACTCAGCCAGGGGACATCCTGCCAATGTGACGAGACA
 TGGTATCTCCGAGCAACCCTGGATGTGGTGGCTGGGGAGGACAGTGGCCTGTCCTGTCGG
 GTGAAGCACAGCAGTCTAGAGGGCCAGGACATCGTCTCTACTGGGGTGGGAGCTACACC
 TCCATGGGCTTGATTGCCTTGGCAGTCTGGCGTGCTTGTCTCCTCCTATTGTGGGC
 TTTACCTCCCGTTTAAAGAGGCAAACCTCCTATCAGGGCGTCTGTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001766 unedited</p> <pre> NTTTGGGGAGTCAAAATTTGTATACGACTCACTATAGGGCGGCCGCAATTCGCACGAGG GTGAGGTGATGTCAAAGGTAGACACCAGGGCTAGAGGGCGCATAATCTTGCAGGCCGTG CTAATGATTTTGTCTTACCCAAGAATGCTACTTCAGGAGATCAGTCAAAGGTTAGGG TGATGGTGACGGTGAAATATAGAAAAAGGAATTTATTCAAGAGGTATTCAAAAAGAAGT GAAATAGAGATGAGTTGGAGATAGATTGGATAAAAAGAGTGAGGGAGAGGGAGGTGCAG GCTGCAGCCCAGTTCTGAGTTGCCAAAGAGGAGTCTTTTCTCCAGGAAATTGAGACAC GCCGGTTGTGAAACCTACTGAAGTGAGCGGCGGCCAGGATTCCTGGGACCCCGACCTC TTTGACAGCTCGCACAGCTAAGGGCGAGGGCGCCCTTCGGCAGAAGCAGCAAAACCGCCGGC AAGCCCAGCGAGGAGGGCTGCCGGGTCTGGGCTTGGGAATTGGCTGGCACCCAGCGAAN AGGGACGTGAGCTGAGCGGGCGGGGAAGAGAGTGCGCAGGTGAGAAGGCGGCGCGCAGCG GCGCTCCGCGAGGTCCCCACGCCCGCGATATGGGGTGCCTGCTGTTTCTGCTGCTGCG GCGCTCCTCAGGCTTGGGAAGCGCTGAAGTCCCGCAAAGGCTTTTCCCCTNCGCTGC CTNCAGATCTCGTCTTTGGCCATAGCAGCTGGACGCGCACCCGACGCTTGGCCGTGCTGG GGAAGCTGCANACGCACAGCTGGAGCAGACTCGGACACCGTCCGGTCTCTGGACCCTGG TCCCAGGGCAGCTCCACCGACAACAATGGGAGACGCTTACATTATTTTCGGTTTTATTC GAGCACTTCN </pre>
3' Read Nucleotide Sequence:	<p>>Forward primer walk for NM_001766 unedited</p> <pre> NTTTTTCTTGGCCCCGATCCTGGCCCTGGCCGTCTGCTGCTGGTGTGCCATGTCTCAGGA TTCTACCCAAAGCCTGTATGGGTGAAGTGGATGCGGGGTGAGCAGGAGCAGCAGGGCACT CAGCCAGGGGACATCCTGCCAATGCTGACGAGACATGGTATCTCCGAGCAACCCTGGAT GTGGTGGCTGGGAGGCAGCTGGCTGTCTGTGCGGTGAAGCACAGCAGTCTAGAGGGC CAGGACATCGTCTCTACTGGGGTGGGAGCTACACCTCCATGGGCTTGATTGCCTTGGCA GTCCTGGCGTGCTTGTCTTCTCCTCATTGTGGGCTTTACCTCCCGTTTAAGAGGCAA ACTTCCTATCAGGGCGTCTGTGACTCGCCTTGCCACATCTGTGTCTCTGGAACCCAGGA CCTCTGGACCTCAGGTTCCCAAGACTTCAGTCTGGTCTGCTCAGGAATTGAAGATGTAA GGAATTGAAGATAGGAGAGATACCTTAAAAAGTAGAGAACAGTCATGAGGCAGCTTTCA TCACACCTTTTAAACATTTATCTAAAAGAATTTAAATCTTTTTCAAAAATTACACTACA AGTTTATAAGCCCAAATGGCTCTGTGAAATCAGAAGTGCAAAGGTGTGCAAACCTGTATC TGAAGACCTACCAGGGACAAGCAGGTAAGAGCTGATGTGAGTGTGTGTGATGGGATCTGT AAGGAACCTACGACACACATGTCCATCCAAAGGAATCAGCTGCAGCTGCTTGTGTCAAG TATAAAGTCAGGACCTGGCTTGGCTTNACCGTTTTTCAAGAACTGGAATCTGGATTT TCAGCGAACATGCCCTGATTTAAAAGGNTGACTCAGTTTTTACAATACTATGTGNGACA CCTCANATACTACCTACTGC </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001766
Insert Size:	2500 bp
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).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_001766.3 , NP_001757.1
RefSeq Size:	3795 bp
RefSeq ORF:	1008 bp
Locus ID:	912
UniProt ID:	P15813
Cytogenetics:	1q23.1
Domains:	IGc1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Hematopoietic cell lineage
Gene Summary:	<p>This gene encodes a divergent 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>