

Product datasheet for **SC305293**

CD1E (NM_030893) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD1E (NM_030893) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD1E
Synonyms:	CD1A; R2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_030893 edited
 AGGGTGTGGAGGGGTACTGATATCTGAATTATTAGGGCAGGTGTCCTGCCAAGGAATC
 CCTCCTTTAACAGAGCTTCAATGCTGCTCCTGTTCCCTCCTTCGAGGGTCTCTGCTGTC
 CTGGGGAAAATACAGCAGCTCCCGAGGCTCTACAATCCTATCATCTAGCAGCAGAGGAGC
 AGCTGTCTTCCGCATGCTCCAACTTCTCCTTTGCCAACACAGCTGGGCACACAGTG
 AGGGCTCAGGATGGCTGGGTGACCTGCAGACTCATGGCTGGGACACTGTCTTGGGACCA
 TCCGCTTTCTGAAGCCCTGGTCCCATGGAACTTCAGCAAGCAGGAGCTGAAAACTTAC
 AGTCACTGTTCCAGTTATACTTCCATAGTTTTATCCGGATAGTGAAGCTTCTGCTGGTC
 AATTTTCAGCTTGAATACCCCTTCGAGATCCAGATATTAGCTGGCTGTAGAATGAATGCC
 CACAAATCTTCTAAATATGGCATATCAAGGGTCAGATTTCTGAGTTTCCAAGGAATTT
 CCTGGGAGCCATCTCCAGGAGCAGGGATCCGGGCCAGAACATCTGTAAAGTGCTCAATC
 GCTACCTAGATATTAAGGAAATACTGCAAAGCCTTCTTGGTCACACCTGCCCTCGATTT
 TAGCGGGGCTCATGGAAGCAGGGGAGTCAGAACTGAAACGGAAAGTGAAGCCAGAGGCT
 GGCTGTCTGTGGCCCCAGTCTGGCCCTGGCCGTCTGCAGCTTGTGTGCCATGTCTCAG
 GATTCTACCCAAAGCCCGTGTGGGTGATGTGGATGCGGGGTGAGCAGGAGCAGCGGGCA
 CTCAGCGAGGGGACGCTCTGCCTAATGCTGACGAGACATGGTATCTCCGAGCAACCCTGG
 ATGTGGCGGTGGGGAGGACGCTGGCCTGTCCTGTGCGGTGAAACACAGCAGTCTAGGG
 GCCATGATCTAATCATCCATTGGGTGGATATTCATCTTTCTCATCCTGATCTGTTTGA
 CTGTGATAGTTACCCTGGTCATATTGGTTGTAGTTGACTCACGGTTAAAAAACAGAGTT
 CAAATAAGAACATTTCTTCTCCACACACCCAGCCTGTCTTTCTCATGGGAGCCAACA
 CTCAGGACACCAAGAATTCAAGACATCAGTTCTGCTTGGCACAAGTATCGTGGATCAAAA
 ACAGAGTATTGAAGAAGTGAAGACACGCCTAAACCAACTCTGGTGACATTTGCTTTACC
 TTATACATAAAATCCTTGTCTGCATCTTCTTAAACACCGTCCATTCCCA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_030893 unedited TGATTTGTATACGACTCCTATAGGGCGGCCGGAATTCAGATCTGGTACCGAGCTCGGAT CCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTAGGGTGTGGAGAGGGTACTG ATATCTGAATTTTAGGGCAGGTGTCTGCCAAGGAATCCCTCCTAACAGAGCCTCAAT GCCGCCCTGTTCCTCCCCCGAGGGTCCCTGCCGTCTGGGAAAAATCAGCAGCTCCC CAGGCTCCACAATCCTACCATCTAGCAGCAGAGGAGCAGCTGTCCCCCGCATGCTCAA ACTCCCCCTCTGCCAACACAGCTGGGCACACAGTGAGGGCCAGGATGGCTGGGTGAC CTGCAGACCCATGGCTGGGACACTGTCCGGGCACCATCCGCTCTCCGAAGCCCTGGTCC CATGGAACTTTTACGAAGCAGGAGCTGAAAACTTTACAGTCACTGTTCCAGTTTTTAC TTTCCATAGTTTTATCCGGATAGTGCAAGCTTTCTGCTGGTCAATTTTTCAGCTTTGAATA CCCCTTCGAGATCCAGATATTAGCTGGCTGTAGAATGAATGCCCCACAAATCTTCTTAA TATGGCATATCAAGGGTCAAGTTTCTGAGTTTCAAGGAATTTCTGGGAGCCATCTCC AGGAGCAGGGATCCGGGCCAGAACATCTGTAAGTGCTCAATCGCTACCTAGATATTAA GGAAATACTGCAAAGCCTTCTTGGTACACCTGCCCTCGATTTCTAGCGGGCTCATGGA AGCACGGGAGTCAGAAGTAAACGGAAAGTGAAGCCAGAGGCCTGGCTGTCTGTGGCC CCAGTCTGGCCCTGGGCGTCTGCAGCTGTGGTGCCATGTCTCAGGATTCTACCCAAA GCCCGTGTGGGGTGTGGATGTGCGGGGTGGAACAGGAACAGCGGGGCACCTCAGCG AGGGGGACGTCCTGCCTATGCTGACGAGAACATGGTATCTCCGAGCACCTTGAAGTTG
Restriction Sites:	Please inquire
ACCN:	NM_030893
Insert Size:	1300 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid.
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_030893.1 , NP_112155.1
RefSeq Size:	972 bp
RefSeq ORF:	972 bp
Locus ID:	913
UniProt ID:	P15812
Cytogenetics:	1q23.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Hematopoietic cell lineage

Gene Summary: 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 within Golgi compartments, endosomes, and lysosomes, and is cleaved into a stable soluble form. The soluble form is required for the intracellular processing of some glycolipids into a form that can be presented by other CD1 family members. Many alternatively spliced transcript variants encoding different isoforms have been described. Additional transcript variants have been found; however, their biological validity has not been determined. [provided by RefSeq, Jun 2010]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest protein (isoform a, also known as 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.