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Product datasheet for RC217182

CD1E (NM_030893) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD1E (NM_030893) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD1E
Synonyms:	CD1A; R2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC217182 representing NM_030893
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCTCCTGTTCCTCCTCTTCGAGGGTCTCTGCTGTCCTGGGGAAAATACAGCAGCTCCCCAGGCTC
TACAATCCTATCATCTAGCAGCAGAGGAGCAGCTGTCCTTCCGCATGCTCCAAACTTCCTCCTTTGCCAA
CCACAGCTGGGCACACAGTGAGGGCTCAGGATGGCTGGGTGACCTGCAGACTCATGGCTGGGACACTGTC
TTGGGCACCATCCGCTTTCTGAAGCCCTGGTCCCATGGAAACTTCAGCAAGCAGGAGCTGAAAAACTTAC
AGTCACTGTTCCAGTTATACTTCCATAGTTTTATCCGGATAGTGCAAGCTTCTGCTGGTCAATTTCAGCT
TGAATACCCCTTCGAGATCCAGATATTAGCTGGCTGTAGAATGAATGCCCCACAAATCTTCTTAAATATG
GCATATCAAGGGTCAGATTTCCTGAGTTTCCAAGGAATTTCCTGGGAGCCATCTCCAGGAGCAGGGATCC
GGGCCCAGAACATCTGTAAAGTGCTCAATCGCTACCTAGATATTAAGGAAATACTGCAAAGCCTTCTTGG
TCACACCTGCCCTCGATTTCTAGCGGGGCTCATGGAAGCAGGGGAGTCAGAACTGAAACGGAAAGTGAAG
CCAGAGGCCTGGCTGTCCTGTGGCCCCAGTCCTGGCCCTGGCCGTCTGCAGCTTGTGTGCCATGTCTCAG
GATTCTACCCAAAGCCCGTGTGGGTGATGTGGATGCGGGGTGAGCAGGAGCAGCGGGGCACTCAGCGAGG
GGACGTCCTGCCTAATGCTGACGAGACATGGTATCTCCGAGCAACCCTGGATGTGGCGGCTGGGGAGGCA
GCTGGCCTGTCCTGTCGGGTGAAACACAGCAGTCTAGGGGGCCATGATCTAATCATCCATTGGGGTGGAT
ATTCCATCTTTCTCATCCTGATCTGTTTGACTGTGATAGTTACCCTGGTCATATTGGTTGTAGTTGACTC
ACGGTTAAAAAAACAGAGTTCAAATAAGAACATTCTTTCTCCCCACACACCCAGCCCTGTCTTTCTCATG
GGAGCCAACACTCAGGACACCAAGAATTCAAGACATCAGTTCTGCTTGGCACAAGTATCGTGGATCAAAA
ACAGAGTATTGAAGAAGTGGAAGACACGCCTAAACCAACTCTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC217182 representing NM_030893
Red=Cloning site Green=Tags(s)

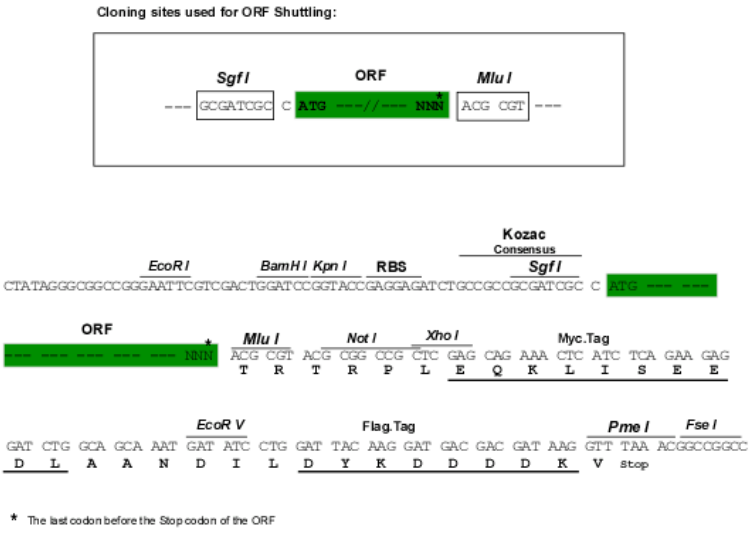
MLLLFLLFEGLCCPGENTAAPQALQSYHLAAEEQLSFRMLQTSSFANHSWAHSEGSGWLGDLQTHGWDTV
LGTIRFLKPWSHGNFSKQELKNLQSLFQLYFHSFIRIVQASAGQFQLEYPFEIQILAGCRMNAPQIFLNM
AYQGSDFLSFQGISWEPSPGAGIRAQNICKVLNRYLDIKEILQSLLGHTCPRFLAGLMEAGESELKRKVK
PEAWLSCGPSPGPGRLQLVCHVSGFYPKPVWVMWMRGEQEQRGTQRGDVLPNADETWYLRATLDVAAGEA
AGLSCRVKHSSLGGHDLIIHWGGYSIFLILICLTVIVTLVILVVVDSRLKKQSSNKNILSPHTPSPVFLM
GANTQDTKNSRHQFCLAQVSWIKNRVLKKWKTRLNQLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6098_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030893

ORF Size: 1164 bp

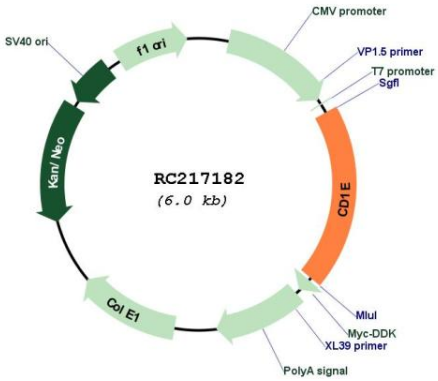
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

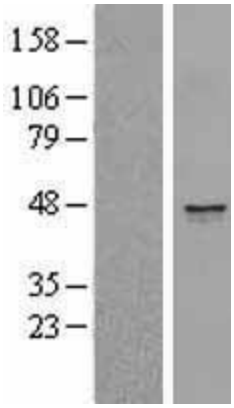
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	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_030893.4
RefSeq Size:	2063 bp
RefSeq ORF:	1167 bp
Locus ID:	913
UniProt ID:	P15812
Cytogenetics:	1q23.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Hematopoietic cell lineage
MW:	41.5 kDa
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]

Product images:



Circular map for RC217182



Western blot validation of overexpression lysate (Cat# [LY403088]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217182 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).