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Product datasheet for RC206613

CD1 (CD1D) (NM_001766) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD1 (CD1D) (NM_001766) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD1
Synonyms:	CD1A; R3; R3G1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206613 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGTGCCTGCTGTTTCTGCTGCTCTGGGCGCTCCTCCAGGCTTGGGGAAGCGCTGAAGTCCCGCAAA
GGCTTTTCCCCCTCCGCTGCCTCCAGATCTCGTCCTTCGCCAATAGCAGCTGGACGCGCACCGACGGCTT
GGCGTGGCTGGGGGAGCTGCAGACGCACAGCTGGAGCAACGACTCGGACACCGTCCGCTCTCTGAAGCCT
TGGTCCCAGGGCACGTTCAGCGACCAGCAGTGGGAGACGCTGCAGCATATATTTCGGGTTTATCGAAGCA
GCTTCACCAGGGACGTGAAGGAATTCGCCAAAATGCTACGCTTATCCTATCCCTTGGAGCTCCAGGTGTC
CGCTGGCTGTGAGGTGCACCCTGGGAACGCCTCAAATAACTTCTTCCATGTAGCATTTCAAGGAAAAGAT
ATCCTGAGTTTCCAAGGAACTTCTTGGGAGCCAACCCAAGAGGCCCCACTTTGGGTAAACTTGGCCATTC
AAGTGCTCAACCAGGACAAGTGGACGAGGGAAACAGTGCAGTGGCTCCTTAATGGCACCTGCCCCCAATT
TGTCAGTGGCCTCCTTGAGTCAGGGAAGTCGGAACTGAAGAAGCAAGTGAAGCCCAAGGCCTGGCTGTCC
CGTGGCCCCAGTCCTGGCCCTGGCCGTCTGCTGCTGGTGTGCCATGTCTCAGGATTCTACCCAAAGCCTG
TATGGGTGAAGTGGATGCGGGGTGAGCAGGAGCAGCAGGGCACTCAGCCAGGGGACATCCTGCCCAATGC
TGACGAGACATGGTATCTCCGAGCAACCCTGGATGTGGTGGCTGGGGAGGCAGCTGGCCTGTCCTGTCGG
GTGAAGCACAGCAGTCTAGAGGGCCAGGACATCGTCCTCTACTGGGGTGGGAGCTACACCTCCATGGGCT
TGATTGCCTTGGCAGTCCTGGCGTGCTTGCTGTTCCTCCTCATTGTGGGCTTTACCTCCCGGTTTAAGAG
GCAAACTTCCTATCAGGGCGTCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206613 protein sequence
Red=Cloning site Green=Tags(s)

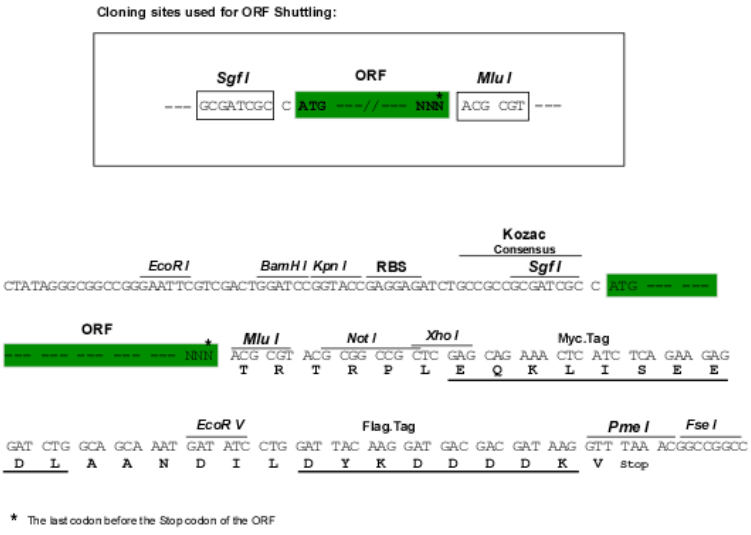
MGCLLFLLLWALLQAWGSAEVPQRLFPLRCLQISSFANSSWTRTDGLAWLGELQTHSWSNDSDTVRSLKP
WSQGTFSDQQWETLQHIFRVYRSSFTRDVKEFAKMLRLSYPLELQVSAGCEVHPGNASNNFFHVAFQGKD
ILSFQGTSWEPTQEAPLWVNLAIQVLNQDKWTRETVQWLLNGTCPQFVSGLLESGKSELKKQVKPKAWLS
RGPSPGPGRLLLVCHVSGFYPKPVWVKWMRGEQEQQGTQPGDILPNADETWYLRATLDVVAGEAAGLSCR
VKHSSLEGQDIVLYWGGSYTSMGLIALAVLACLLFLLIVGFTSRFKRQTSYQGVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6016_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001766

ORF Size: 1005 bp

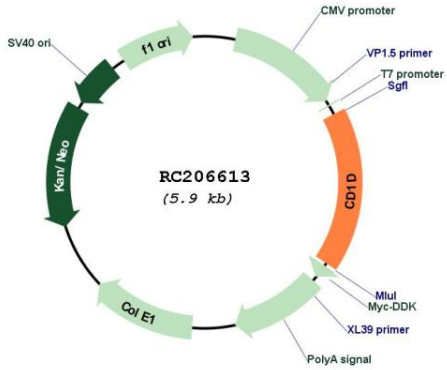
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

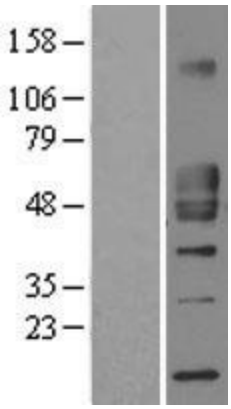
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_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
MW:	37.7 kDa
Gene Summary:	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]

Product images:



Circular map for RC206613



Western blot validation of overexpression lysate (Cat# [LY400670]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206613 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).