

Product datasheet for **RG206613**

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:	TurboGFP
Symbol:	CD1
Synonyms:	CD1A; R3; R3G1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206613 representing NM_001766 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGTGCCCTGCTGTTTCTGCTGCTCTGGGCGCTCCTCCAGGCTTGGGGAAGCGCTGAAGTCCCGCAA
 GGCTTTTCCCCCTCCGCTGCCTCCAGATCTCGTCCTTCGCAATAGCAGCTGGACGCGCACCGACGGCTT
 GGCGTGGCTGGGGGAGCTGCAGACGCACAGCTGGAGCAACGACTCGGACACCGTCCGCTCTCTGAAGCCT
 TGGTCCCAGGGCACGTTACGCGACCAGCAGTGGGAGACGCTGCAGCATATATTTTCGGGTTTATCGAAGCA
 GCTTACCAGGGACGTGAAGGAATTCGCCAAAATGCTACGCTTATCCTATCCCTTGGAGCTCCAGGTGTC
 CGCTGGCTGTGAGGTGCACCCTGGGAACGCCTCAAATAACTTCTTCCATGTAGCATTTCAAGGAAAAGAT
 ATCCTGAGTTTCCAAGGAACTTCTTGGGAGCCAACCCAAGAGGCCCACTTTGGGTAAACTTGGCCATTC
 AAGTGCTCAACCAGGACAAGTGGACGAGGGAAACAGTGCAGTGGCTCCTTAATGGCACCTGCCCCCAATT
 TGTCAGTGGCCTCCTTGAGTCAGGGAAGTCGGAAGTGAAGAAGCAAGTGAAGCCAAGGCCTGGCTGTCC
 CGTGGCCCCAGTCTGGCCCTGGCCGTCTGCTGCTGGTGTGCCATGTCTCAGGATTCTACCCAAAGCCTG
 TATGGGTGAAGTGGATGCGGGGTGAGCAGGAGCAGCAGGGCACTCAGCCAGGGGACATCCTGCCCAATGC
 TGACGAGACATGGTATCTCCGAGCAACCCTGGATGTGGTGGCTGGGAGGCAGCTGGCCTGTCTGTCTCG
 GTGAAGCACAGCAGTCTAGAGGGCCAGGACATCGTCCTCTACTGGGTGGGAGCTACACCTCCATGGGCT
 TGATTGCCTTGGCAGTCTGGCGTGCTTGCTGTTCTCCTCATTGTGGGCTTTACCTCCCGGTTTAAGAG
 GCAAATTCCTATCAGGGCGTCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG206613 representing NM_001766
 Red=Cloning site Green=Tags(s)

MGCLLFLLWALLQAWGSAEVPQRLFPLRCLQISSFANSSWTRTDGLAWLGELQTHSWSNDSDTVRSCLKP
 WSQGTFSQQWETLQHIFRYYRSSFTRDVKEFAKMLRLSYPLELQVSAGCEVHPGNASNNFFHVAFAQGKD
 ILSFQGTSWPTQEAPLWVNLAIQVLNQDKWTRETQVLLNGTQCPQFVSGLLESGKSELKKQVKPKAWLS
 RGPSPGPGRLLLVCHVSGFYKPVWVKWMRGEQEQQGTQPGDILPNADETWYLRATLDVVAGEAAGLSR
 VKHSSLEGQDIVLYWGGSYTSMGLIALAVLACLLFLLIVGFTSRFKRQTSYQGV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001766

ORF Size: 1005 bp

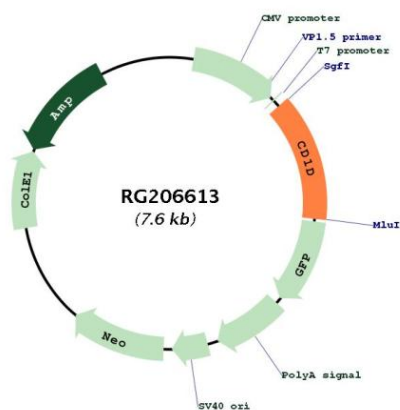
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001766.3, NP_001757.1</u>
RefSeq Size:	3795 bp
RefSeq ORF:	1008 bp
Locus ID:	912
UniProt ID:	<u>P15813</u>
Cytogenetics:	1q23.1
Domains:	IGc1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Hematopoietic cell lineage
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 RG206613