

Product datasheet for **RG221599**

CD1 (CD1A) (NM_001763) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD1 (CD1A) (NM_001763) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD1A
Synonyms:	CD1; FCB6; HTA1; R4; T6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221599 representing NM_001763 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTTTGCTACTTCCATTGTTAGCTGTTCTCCAGGTGATGGCAATGCAGACGGGCTCAAGGAGC
CTCTCTCCTTCCATGTCATCTGGATCGCATCCTTTTACAACCATTCTGGAAACAAAATCTGGTCTCAGG
TTGGCTGAGTGATTTGCAGACTCATACTGGGACAGCAATCCAGCACCATCGTTTTCTGTGGCCCTGG
TCCAGGGGAACTTCAGCAATGAGGAGTGAAGGAACTGGAAACATTATCCGTATACGCACCATTCCGT
CATTTGAGGGAATTCGTAGATACGCCATGAATTGCAGTTTGAATATCCTTTTGAGATACAGGTGACAGG
AGGCTGTGAGCTGCACTCTGAAAGGTCTCAGGAAGCTTCTTGCAGTTAGCTTATCAAGGATCAGACTTT
GTGAGCTTCCAGAACAATTCATGGTTGCCATATCCAGTGGCTGGGAATATGGCCAAGCATTTCTGCAAAG
TGCTCAATCAGAAATCAGCATGAAAATGACATAACACACAATCTTCTCAGTGACACCTGCCACGTTTCAT
CTTGGGTCTTCTTGATGCAGGAAAGGCACATCTCCAGCGCAAGTGAAGCCCAGGCCTGGCTGTCCCAT
GGCCCCAGTCTGGCCCTGGCCATCTGCAGCTTGTGTGCCATGTCTCAGGATTCTACCCAAGCCCGTGT
GGTGATGTGGATGCGGGGTGAGCAGGAGCAGCAGGGCACTCAGCGAGGGGACATCTTGGCCAGTGTGA
TGGGACATGGTATCTCCGCGCAACCCTGGAGGTGGCCGCTGGGGAGGCAGCTGACCTGTCTGTGGGTG
AAGCACAGCAGTCTAGAGGGCCAGGACATCGTCTCTACTGGGAGCATCACAGTTCGGTGGGCTTCATCA
TCTTGGCCGTGATAGTGCCTTACTTCTCTGATAGGTCTTGCCTTTGGTTGAGAAACCGCTGTTTCTG
T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221599 representing NM_001763
 Red=Cloning site Green=Tags(s)

MLFLLLPLLAVALPGDGNADGLKEPLSFHVIWIASFYNHSWKQNLVSGWLSDLQHTWDSNSSTIVFLWPW
 SRGNFSNEEWKELETFRIRTIIRSFEGIRRYAHELQFEPFEIQVTGGCELHSGKVSFSLQLAYQGSDF
 VSFQNNWLPYPVAGNMAKHFCVNLNQNHENDITHNLLSDTCPRFILGLLDAGKAHLQRQVKPEAWLSH
 GPSPGPGHLQLVCHVSGFYPKPVWVMMRGEQEQQGTQRGDILPSADGTWYLRLATLEVAAGEAADLSCRV
 KHSSLEGQDIVLYWEHSSVGFII LAVIVPLLLL IGLALWFRKRCFC

TRTRPLE - GFP Tag - V

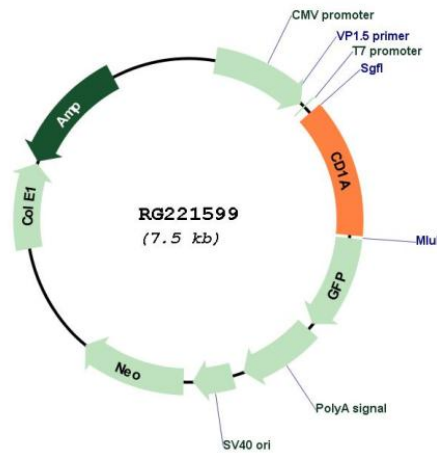
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001763

ORF Size: 981 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:	<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_001763.1 , NP_001754.1
RefSeq Size:	2072 bp
RefSeq ORF:	984 bp
Locus ID:	909
UniProt ID:	P06126
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 to the plasma membrane and to recycling vesicles of the early endocytic system. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]