

Product datasheet for **RG219547**

CD1E (NM_001042586) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD1E (NM_001042586) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CD1E
Synonyms: CD1A; R2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG219547 representing NM_001042586
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTCCTGTTCTCCTCTTCGAGGGTCTCTGCTGTCCTGGGAAAAACAGCAGTGAAGCCAGAGG
CCTGGCTGCTCCTGTGGCCCCAGTCTGGCCCTGGCCGTCTGCAGCTTGTGTGCCATGTCTCAGGATTCTA
CCCAAAGCCCGTGTGGGTGATGTGGATGCGGGGTGAGCAGGAGCAGCGGGGCACTCAGCGAGGGGACGTC
CTGCCTAATGCTGACGAGACATGGTATCTCCGAGCAACCCTGGATGTGGCGCTGGGAGGCAGCTGGCC
TGTCTGTGGGTGAAACACAGCAGTCTAGGGGCCATGATCTAATCATCCATTGGGTGGATATCCAT
CTTTCTCATCCTGATCTGTTGACTGTGATAGTTACCCTGGTCATATTGTTGTAGTTGACTCACGGTTA
AAAAAACAGAGCCCTGTCTTTCTCATGGGAGCCAACACTCAGGACACCAAGAATCAAGACATCAGTTCT
GCTTGGCACAAGTATCGTGGATCAAAAACAGAGTATTGAAGAAGTGAAGACACGCCTAAACCAACTCTG
G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219547 representing NM_001042586
Red=Cloning site Green=Tags(s)

MLLLFLLFEGLCCPGENTAVKPEAWLSCGSPSPGPGRLQLVCHVSGFYPKPVWVMMRGEQEQRGTQRGDV
LPNADETWYLRATLDVAAGEAAGLSCRVKHSSLGGHDLIIHWGGYSIFLILICLTVIVTLVILVVVDSRL
KKQSPVFLMGANTQDTKNSRHQFCLAQVSWIKNRVLLKKWTRLNQLW

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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_001042586.3](#)

RefSeq Size: 1514 bp

RefSeq ORF: 564 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]