OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG230969

CD1E (NM_001185110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD1E (NM_001185110) 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:

>RG230969 representing NM_001185110
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCTCCTGTTCCTCCTCTTCGAGGGTCTCTGCTGTCCTGGGGAAAATACAGCAGTGAAGCCAGAGG
CCTGGCTGTCCTGTGGCCCCAGTCCTGGCCCTGGCCGTCTGCAGCTTGTGTGCCATGTCTCAGGATTCTA
CCCAAAGCCCGTGTGGGTGATGTGGATGCGGGGTGGATATTCCATCTTTCTCATCCTGATCTGTTTGACT
GTGATAGTTACCCTGGTCATATTGGTTGTAGTTGACTCACGGTTAAAAAAACAGAGCCCTGTCTTTCTCA
TGGGAGCCAACACTCAGGACACCAAGAATTCAAGACATCAGTTCTGCTTGGCACAAGTATCGTGGATCAA
AAACAGAGTATTGAAGAAGTGGAAGACACGCCTAAACCAACTCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230969 representing NM_001185110
Red=Cloning site Green=Tags(s)

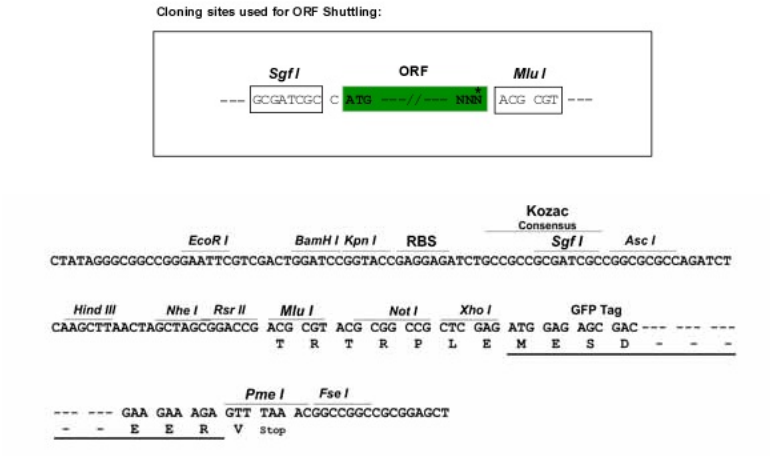
MLLLFLLFEGLCCPGENTAVKPEAWLSCGPSPGPGRLQLVCHVSGFYPKPVWVMWMRGGYSIFLILICLT
VIVTLVILVVVDSRLKKQSPVFLMGANTQDTKNSRHQFCLAQVSWIKNRVLKKWKTRLNQLW

TRTRPLE - GFP Tag - V

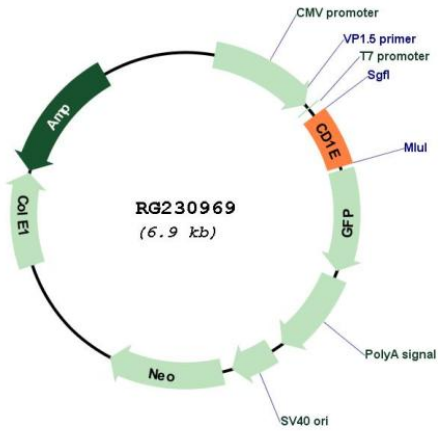
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN: NM_001185110

ORF Size: 396 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_001185110.2
RefSeq Size:	1349 bp
RefSeq ORF:	399 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]