

## Product datasheet for **RG231142**

### CD1E (NM\_001185107) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD1E (NM_001185107) 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:	>RG231142 representing NM_001185107 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTGCTCCTGTTCCTCCTCTTCGAGGGTCTCTGCTGTCCTGGGGAAAATACAGCAGCTCCCCAGGCTC  
TACAATCCTATCATCTAGCAGCAGAGGAGCAGCTGTCCTCCGCATGCTCCAACTTCTCCTTTGCCAA  
CCACAGCTGGGCACACAGTGAGGGCTCAGGATGGCTGGGTGACCTGCAGACTCATGGCTGGGACACTGTC  
TTGGGCACCATCCGCTTCTGAAGCCCTGGTCCCATGGAACCTCAGCAAGCAGGAGCTGAAAACTTAC  
AGTCAGTGTCCAGTTATACTTCCATAGTTTTATCCAGATAGTGAAGCTTCTGCTGGTCAATTTACAGT  
TGAATTGAAGCCAGAGGCTGGCTGTCCGTGGCCCCAGTCTGGCCCTGGCCGTCTGCAGCTTGTGTGC  
CATGTCTCAGGATTCTACCCAAAGCCCGTGTGGGTGATGTGGATGCGGGGTGAGCAGGAGCAGCGGGCA  
CTCAGCGAGGGGACGTCCTGCCTAATGCTGACGAGACATGGTATCTCCGAGCAACCCTGGATGTGGCGGC  
TGGGGAGGCAGCTGGCCTGTCCTGTCCGGTGAACACAGCAGTCTAGGGGGCCATGATCTAATCATCCAT  
TGGGGTGGATATTCCATCTTCTCATCCTGATCTGTTGACTGTGATAGTTACCTGGTCATATTGGTTG  
TAGTTGACTCACGGTTAAAAAACAGAGTTCAAATAAGAACATTTCTTCTCCACACACCCAGCCCTGT  
CTTCTCATGGGAGCCAACACTCAGGACACCAAGAATTCAAGACATCAGTCTGCTTGGCACAAGTATCG  
TGGATCAAAAACAGAGTATTGAAGAAGTGAAGACACGCCTAAACCAACTCTGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG231142 representing NM\_001185107  
Red=Cloning site Green=Tags(s)

MLLLFLLFEGLCPCGENTAAPQALQSYHLAAEEQLSFRMLQTSFANHSWAHSEGSGLGDLQTHGWDTV  
 LGTIRFLKPWSHGNSFKQELKNLQSLFQLYFHSFIQIVQASAGQFQLELKPEAWLSCGPSPPGRLQLVC  
 HVSGFYPKPVVWMMRGEQEQRGTQRGDVLPNADETWYLRATLDVAAGEAAGLSRVKHSLSGGHDLIIH  
 WGGYSIFLILICLTVIVTLVILVVVDSRLKKQSSNKNILSPHTPPVFLMGANTQDTKNSRHQFCLAQVS  
 WIKNRVLLKKWKTRLNQLW

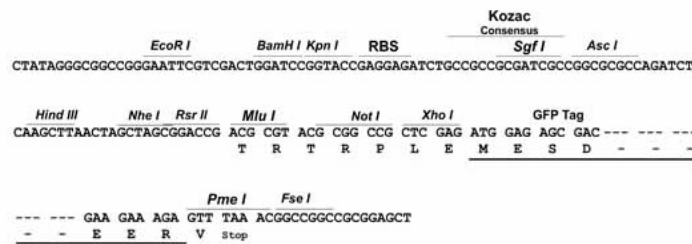
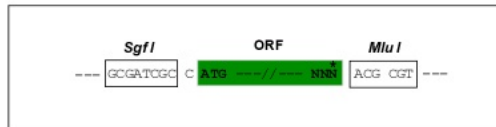
TRTRPLE - GFP Tag - V

**Restriction Sites:**

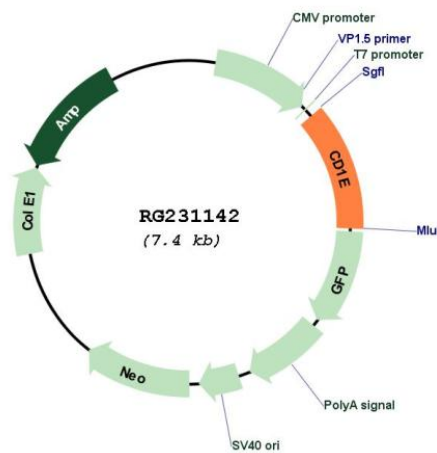
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001185107

**ORF Size:** 894 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001185107.2</a>
<b>RefSeq Size:</b>	1847 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	913
<b>UniProt ID:</b>	<a href="#">P15812</a>
<b>Cytogenetics:</b>	1q23.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Hematopoietic cell lineage
<b>Gene Summary:</b>	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]