

Product datasheet for **MG217822**

Cd300lf (NM_001169153) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cd300lf (NM_001169153) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cd300lf
Synonyms: CLIM1; CLM-1; CLM1; Digr2; F730004D16Rik; IgSF13; IREM1; LMIR3; Pigr3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG217822 representing NM_001169153
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATTTGTCATTGCTGGTCCCCTTTCTCTTCTGGATCACAGGCTGCTGCACGGCTGAGGATCCAGTCA
CAGGTCCAGAGGAGGTGAGCGGTCAGGAGCAGGGCTCCTTGACAGTGCAGTGCCGATATACCTCAGGCTG
GAAGGATTACAAGAAGTACTGGTGCCAAGGAGTTCCTCAGAGATCATGTAAGACTCTTGTGAAACCGAT
GCATCAGAGCAGCTGGTGAAGAAGAACCGTGTGCCATCAGGGACAACCAGAGAGACTTCATCTTCACAG
TGACCATGGAGGATCTGAGGATGAGCGATGCTGGCATTACTGGTGTGGAATTACGAAAGGTGGACTTGA
TCCCATGTTTAAAGTTACTGTGAACATTGGCCAGCAATCCAAGTACCCATTACAGTGCCAACCATGCC
CCCATCACCTCCACCACCACCATCTTCACAGTGACAACCACAGTAAAAGAGACCAGCATGTTTCCAACGC
TGACTAGCTACTACTCTGATAACGGGCATGGCGGTGGTGACAGTGGCGGTGGTGAAGATGGCGTCCGTTGA
TGGGTTTCTGGATCTCAGTGTGCTCCTCCAGTCATCTCTGCAGTCTGTGCTTCTCCTGTTGGTGGCC
TCGCTCTTTGCTTGAGGATGGTGAAGGACAGAAGAAAGCTGCTGGGCCACCATCAGAGCAGGCACAGT
CTCTGGAGGGTGATCTCTGTTATGCAGACCTGTCCCTGAAGCAGCCCAGAACCTCCCCTGGCTCCTCTTG
GAAAAAGGGCTCCTCCATGTCTCCTCTGGCAAGGACCAAGAGGAAGTGAATATGTCACCATGGCT
CCCTTTCCAGGAGGAGGTTTCATATGCCGCTCTGACTTTGGCCGGCTTGGGTCAAGGAGCCTACTTATG
GCAATACTGGCTGCCCCATCACCCACGTTCCCAGGACAGGCCCTGAAGAGGAGACCACAGAGTACAGCAG
CATCAGGAGGCCCTTGCTGCAGCCATGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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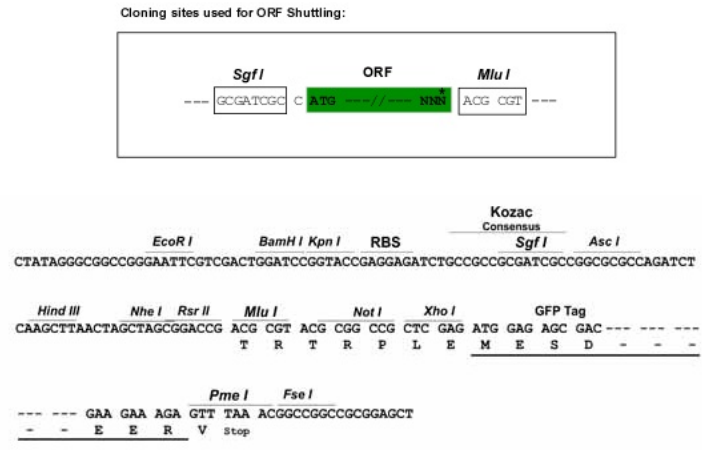
Protein Sequence: >MG217822 representing NM_001169153
 Red=Cloning site Green=Tags(s)

MHLSLLVPFLFWITGCCTAEDPVTGPEEVSGQEQGLTLVQCRYTSGWKDYKKYWCQGVQPQRSCKTLVETD
 ASEQLVKKNRVSIIRDNRDFIFTVTMEDLRMSDAGIYWCGITKGGDPMFKVTNIGPAIQVPITVPTMP
 PITSTTTIFTVTTTVKETSMFPRTLTSYSDNGHGGGDSGGGEDGVGDGFLDLSVLLPVISAVLLLLLLVA
 SLFAWRMVRQKKAAGPPSEQAQSLLEGDLCYADLSLKQPRTPSGSSWKKGSSMSSSGKDHQEEVEVYVMA
 PFPREEVSYAALTLAAGLQPEPTYGNTGCPITHVPRTGLEEETTEYSSIRRPLPAAMP

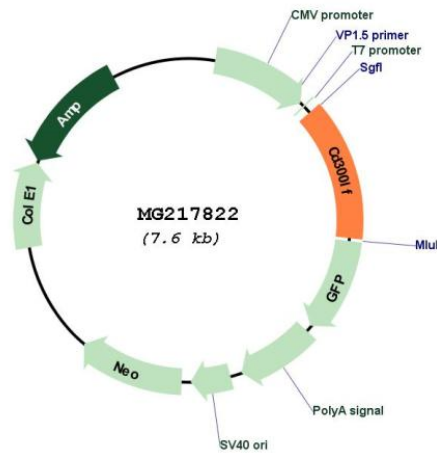
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001169153

ORF Size: 1011 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_001169153.1 , NP_001162624.1
RefSeq Size:	1885 bp
RefSeq ORF:	1014 bp
Locus ID:	246746
UniProt ID:	Q6SJO7
Cytogenetics:	11 E2
Gene Summary:	Acts as an inhibitory receptor for myeloid cells and mast cells (PubMed:17438331). Positively regulates the phagocytosis of apoptotic cells (efferocytosis) via phosphatidylserine (PS) recognition; recognizes and binds PS as a ligand which is expressed on the surface of apoptotic cells (PubMed:21865548). Plays an important role in the maintenance of immune homeostasis, by promoting macrophage-mediated efferocytosis and by inhibiting dendritic cell-mediated efferocytosis (PubMed:26768664). Negatively regulates Fc epsilon receptor-dependent mast cell activation and allergic responses via binding to ceramide which acts as a ligand (PubMed:23123064). May act as a coreceptor for interleukin 4 (IL-4). Associates with and regulates IL-4 receptor alpha-mediated responses by augmenting IL-4- and IL-13-induced signaling (PubMed:26124135). Negatively regulates the Toll-like receptor (TLR) signaling mediated by MYD88 and TRIF through activation of PTPN6/SHP-1 and PTPN11/SHP-2 (By similarity). Inhibits osteoclast formation (PubMed:14662855). Induces macrophage cell death upon engagement (PubMed:18097021).[UniProtKB/Swiss-Prot Function]