

Product datasheet for **RG232021**

CD300 antigen (CD300A) (NM_001256841) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD300 antigen (CD300A) (NM_001256841) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD300A
Synonyms:	CLM-8; CMRF-35-H9; CMRF-35H; CMRF35-H; CMRF35-H9; CMRF35H; CMRF35H9; IGSF12; IRC1; IRC1/IRC2; IRC2; IRp60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232021 representing NM_001256841 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGCTGCCTTGGGCTCTGTTGCTTCTCTGGTCCCAGCATCAACGTCAATGACACCTGCAAGTATCA
CTGCGGCCAAGACCTCAACAATCACAATGCATTTCCACCTGTATCATCCACTACCCTGTTTGCAGTGGG
TGCCACCCACAGTGCCAGCATCCAGGAGGAAACTGAGGAGGTGGTGAACACAGCTCCCCTGCTCCTC
TCCCTGCTGGCATTGTTGCTGCTTCTGTTGGTGGGGCCCTCCCTGCTAGCCTGGAGGATGTTTCAGAAAT
GGATCAAAGCTGGTGACCATTGAGAGCTGTCCAGAACCCCAAGCAGGCTGCCACGCAGAGTGAGCTGCA
CTACGCAATCTGGAGCTGCTGATGTGGCTCTGCAGGAAAAGCCAGCACCACCAAGGGAGTGGAGGTG
GAATACAGCACTGTGGCCTCCCCAGGGAAGAATTCACTATGCCTCGGTGGTGTGTTGATTCTAACACCA
ACAGGATAGCTGCTCAGAGGCCTCGGGAGGAGGAACCAGATTACAGTTACAGTGTGATAAGGAAGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>RG232021 representing NM_001256841 Red=Cloning site Green=Tags(s)
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MWLPWALLLLWVPASTSMTPASITAAKTSTITTAFFPPVSSTTLFVAGATHSASIQEETEEVNSQLPLLL
SLLALLLLLLLVGASLLAWRMFQKWKIKAGDHSEL SQNPKQAATQSELHYANLELLMWPLQEKPPPREVEV
EYSTVASPREELHYASVVFDSNTNRIAAQRPREEEPDSYVIRKT

TRTRPLE - GFP Tag - V

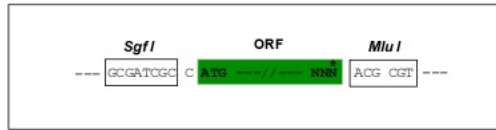


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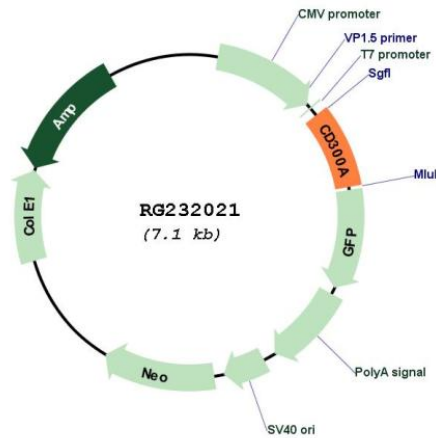
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001256841

ORF Size: 558 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:	<u>NM_001256841.2</u>
RefSeq Size:	1554 bp
RefSeq ORF:	561 bp
Locus ID:	11314
UniProt ID:	<u>Q9UGN4</u>
Cytogenetics:	17q25.1
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a member of the CD300 glycoprotein family of cell surface proteins found on leukocytes involved in immune response signaling pathways. This gene is located on chromosome 17 in a cluster with all but one of the other family members. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]