

Product datasheet for **RC232021**

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: Myc-DDK
Symbol: CD300A
Synonyms: CLM-8; CMRF-35-H9; CMRF-35H; CMRF35-H; CMRF35-H9; CMRF35H; CMRF35H9; IGSF12; IRC1; IRC1/IRC2; IRC2; IRp60
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232021 representing NM_001256841
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCTGCCTTGGGCTCTGTTGCTTCTCTGGGTCCCAGCATCAACGTCAATGACACCTGCAAGTATCA
CTGCGGCCAAGACCTCAACAATCACAATGCATTTCCACCTGTATCATCCACTACCCTGTTTGCAGTGGG
TGCCACCCACAGTGCCAGCATCCAGGAGGAAACTGAGGAGGTGGTGAACCTCACAGCTCCCCTGCTCCTC
TCCCTGCTGGCATTGTTGCTGCTTCTGTTGGTGGGGCCTCCCTGCTAGCCTGGAGGATGTTTCAGAAAT
GGATCAAAGCTGGTGACCATTGAGAGCTGTCCAGAACCCCAAGCAGGCTGCCACGAGAGTGAGCTGCA
CTACGCAAATCTGGAGCTGCTGATGTGGCTCTGCAGGAAAAGCCAGCACCACCAAGGGAGTGGAGGTG
GAATACAGCACTGTGGCCTCCCCAGGGAAGAACTTCACTATGCCTCGGTGGTGTGTTGATTCTAACACCA
ACAGGATAGCTGCTCAGAGGCCTCGGGAGGAGGAACCAGATTCAGATTACAGTGTGATAAGGAAGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC232021 representing NM_001256841
Red=Cloning site Green=Tags(s)

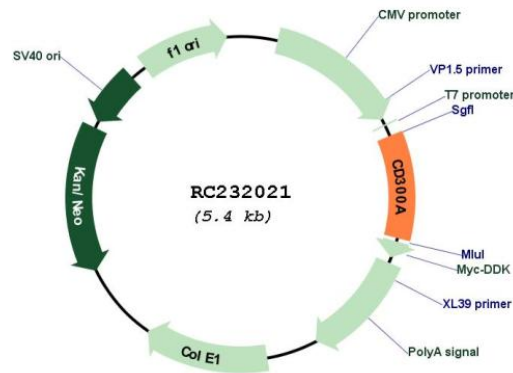
MWLPWALLLLWVPASTSMTPASITAAKTSTITTAFFPVSSTTLFVAGATHSASIQEETEEVNSQLPLLL
SLLALLLLLLVGASLLAWRMFQKWIKAGDHSEL SQNPKQAAATQSELHYANLELLMWPLQEKAPPREVEV
EYSTVASPREELHYASVVFDSNTNRIAAQRPREEEPDSYSDYVIRKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:

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:

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_001256841.2](#)

RefSeq Size: 1554 bp

RefSeq ORF: 561 bp

Locus ID: 11314

UniProt ID: [Q9UGN4](#)

Cytogenetics: 17q25.1

Protein Families: Transmembrane

MW: 21.1 kDa

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]