

Product datasheet for **RC236471**

CD300 (CD300LF) (NM_001289082) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD300 (CD300LF) (NM_001289082) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD300LF
Synonyms: CD300f; CLM-1; CLM1; IgSF13; IREM-1; IREM1; LMIR3; NKIR
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236471 representing NM_001289082
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGTGGCTGCCTCAGCTCGACCTCATGAGGGTCATCAGTGCTAAGAGTCAAGGCTACTCCATTGTCACCTC
AAATCACCGGTCCAACAACAGTGAATGGCTTGGAGCGGGCTCCTTGACCGTGCAGTGTGTTACAGATC
AGGCTGGGAGACCTACTTGAAGTGGTGGTGTGAGGAGCTATTTGGCGTGACTGCAAGATCCTTGTTAAA
ACCAAGTGGGTGAGAGCAGGAGGTGAAGAGGGACCGGGTGTCCATCAAGGACAATCAGAAAAACCGCACGT
TCACTGTGACCATGGAGGATCTCATGAAAAGTGTGCTGACACTTACTGGTGTGGAATTGAGAAAAGTGG
AAATGACCTTGGGGTACAGTTCAGTGAAGTACCATGACCCAGCACCAGTCAACCAAGAAGAACTAGCAGC
TCCCAACTCTGACCGGCCACCACTTGGACAACAGCAGCCGGGATGTCCCAGAGCAGGTACTGCAGCCC
CTGGAGGGCGACCTCTGCTATGCAGACCTGACCTGCAGCTGGCCGGAACCTCCCCGAAAAGGCTACCA
CGAAGCTTTCCTCTGCCAGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236471 representing NM_001289082
Red=Cloning site Green=Tags(s)

MWLPQLDLMRVISAKSQGYSIVTQITGPTTVNGLERGLSLTVQCVRSGWETYLKWWCRGAIWRDCKILVK
TSGSEQEVKRDRVSIKDNQKNRFTVTMEDLMKTDADTYWCGIEKTGNDLGVTVQVTIDPAPVTQEETSS
SPTLTGHHLDNSSRDVPRAGTAAPGGRPLLCRPDPAAGRNLPAKGYHEAFLCPG

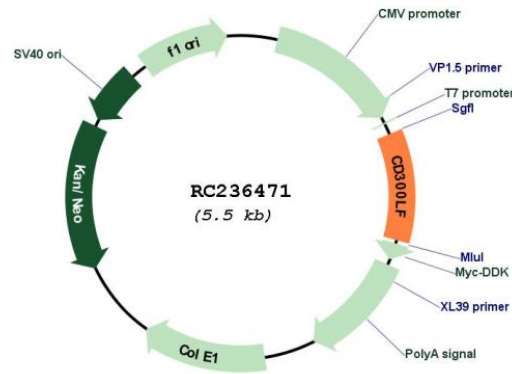
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001289082

ORF Size: 582 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_001289082.2](#)

RefSeq Size: 1871 bp

RefSeq ORF: 585 bp

Locus ID: 146722

UniProt ID: [Q8TDQ1](#)

Cytogenetics: 17q25.1

Protein Families: Druggable Genome, Transmembrane

MW: 21.9 kDa

Gene Summary: This gene encodes a member of the CD300 protein family. Members of this family are cell surface glycoproteins with a single IgV-like extracellular domain, and are involved in the regulation of immune response. The encoded protein is an inhibitory receptor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]