

Product datasheet for **RR200569**

Cd300lf (NM_001025111) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cd300lf (NM_001025111) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cd300lf
Synonyms: CD300f; RGD1309733
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200569 representing NM_001025111
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCATTTGTCTTGGCTCTCTTTCTTTCTTCTGGATCTCAGGCTGCTTCACTGCTCAGGATCCAGTCA
CAGGTCCAGAGGAGGTGAGCGGTTACGAGCAGGGCTCCCTGACAGTGTGGTGTGATATGGCTCATGGT
GAAGGATTACAGCAAGTACTGGTGCCGAGGACCTAAGAGGAGTTCCTGTGAGATTCGAGTTGAAACCGAT
GCATCAGAGCGCTTGGTGAAGGAGAACCATGTGTCCATCAGGGACGACCAGACAACTTCACCTTCACAG
TGACCATGGAGGACCTGAGGATGAGCGATGCTGGCATTACTGGTGTGGAATTACAAAGGCTGGATATGA
TCACATGTTTAAAGTTTATGTGAGCATTAAACCCAGTGCCAAACGCCCACCACCACCTCCACCACCACC
ATCTTCACAGTGACAACCACTGTAAAAGAGACCAGCAGCTTTCAACGCAGACCAGCCACTACTCTGATA
ACAGGTATGACAGTGGTGGTGTGCGGCACGGTAATGGGTTTCTGGATCTCAGCGTGTCTCCCAGTCAT
CTCTGCAGCCCTGTTGCTTCTTGTGCTGGTGGTCTCACTAATTGCTTGGAGGATGGTGGAGGACAGAAG
AAAGCTGCTGGACCACCCTCAGGGCAGGCTGATTCTGTGACTCACATCTGTGTCCCCCAAACCCATG
TACAGCCTCTGGAGGATGATCTCTGTTATGCAAACCTGTCACTGCAGCAGCCAGAACCTCCCCTTTGAA
AAAGGGCTCCTCCATGTCTCTCTGGCAAGGACCACCAAGAGGAAGTGAATACGTACCATGGCTCCC
TTCCCTAGGGAGGAGATTCATACGCTGCTGTCTTTGGCGAGCTTGGGTGAGAACCTACTTACAGCA
ACACTGCCTGCCTGTACCCATGGTCCCAGGACAAACCTTGGAGAGGAGACCACAGGTACAGCAGCAT
CAGGAGGCCCATGCCT

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200569 representing NM_001025111
Red=Cloning site Green=Tags(s)

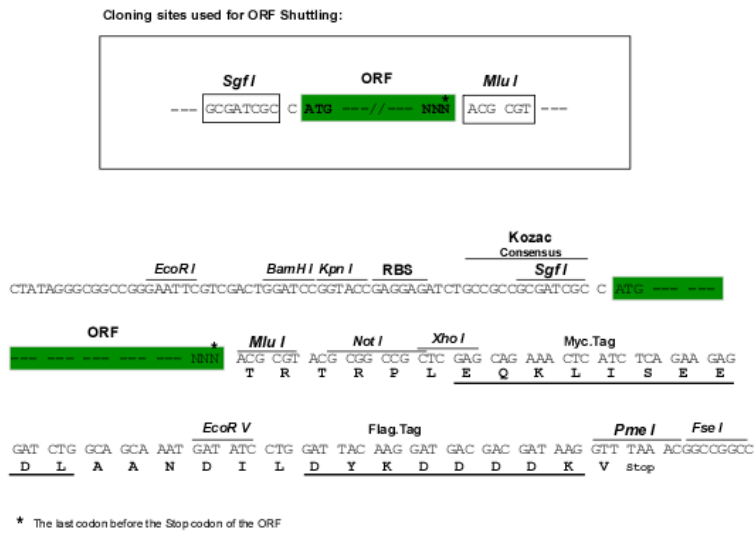
MHLSLLALFLFWISGCFTAQDPVTGPEEVSGYEQGSLTVWCRYGSWWKDYKYWCRGPKRSSCEIRVETD
 ASERLVKENHVSIRDDQTNFTFTVTMEDLRMSDAGIYWCGITKAGYDHMFVHVSINPVPTPTTTSTTT
 IFVTVVTKETSTLSTQTSHYSDNRYDSGGVGDGNGFLDLVLLPVISAAALLLLLVVSLIAWRMVRQK
 KAAGPPSGQADSVTHILCPPKPHVQPLEDDL CYANLSLQQPRTSPLKKGSSMSSSGKDHQEEVEYVTMAP
 FPREEISYAALSLASLGQEPTYSENTACLVTGPRTNLGEETTEYSSIRRPMP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

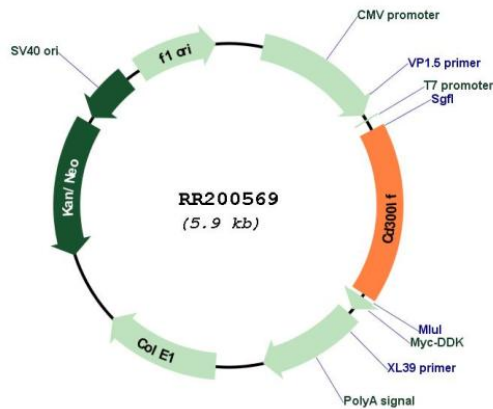
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025111

ORF Size: 996 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_001025111.1 , NP_001020282.1
RefSeq Size:	1818 bp
RefSeq ORF:	999 bp
Locus ID:	287818
UniProt ID:	Q566E6
Cytogenetics:	10q32.1
MW:	36.8 kDa
Gene Summary:	Acts as an inhibitory receptor for myeloid cells and mast cells. 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. Plays an important role in the maintenance of immune homeostasis, by promoting macrophage-mediated efferocytosis and by inhibiting dendritic cell-mediated efferocytosis. Negatively regulates Fc epsilon receptor-dependent mast cell activation and allergic responses via binding to ceramide and sphingomyelin which act as ligands. 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. Negatively regulates the Toll-like receptor (TLR) signaling mediated by MYD88 and TRIF through activation of PTPN6/SHP-1 and PTPN11/SHP-2. Inhibits osteoclast formation. Induces macrophage cell death upon engagement. [UniProtKB/Swiss-Prot Function]