

Product datasheet for **RN200569**

Cd300lf (NM_001025111) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cd300lf (NM_001025111) Rat Untagged Clone
Tag: Tag Free
Symbol: Cd300lf
Synonyms: CD300f; RGD1309733
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN200569 representing NM_001025111
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCATTTGTCTTTGCTGGCTCTCTTTCTTTCTGGATCTCAGGCTGCTTCACTGCTCAGGATCCAGTCA
CAGGTCCAGAGGAGGTGAGCGGTTACGAGCAGGGCTCCCTGACAGTGTGGTGTGATATGGCTCATGGT
GAAGGATTACAGCAAGTACTGGTGCCGAGGACCTAAGAGGAGTTCCTGTGAGATTCGAGTTGAAACCGAT
GCATCAGAGCGCTTGGTGAAGGAGAACCATGTGTCCATCAGGGACGACCAGACAACTTCACCTTCACAG
TGACCATGGAGGACCTGAGGATGAGCGATGCTGGCATTACTGGTGTGGAATTACAAAGGCTGGATATGA
TCACATGTTTAAAGTTTCATGTGAGCATTAAACCCAGTGCCAACAACGCCACCACCACCTCCACCACCACC
ATCTTCACAGTGACAACCACTGTAAAAGAGACCAGCAGCTTTCAACGCAGACCAGCCACTACTCTGATA
ACAGGTATGACAGTGGTGGTGTGCGGCACGGTAATGGGTTTCTGGATCTCAGCGTGTCTCCCAGTCAT
CTCTGCAGCCCTGTTGCTTCTCTTGCTGGTGGTCTCACTAATTGCTTGGAGGATGGTGGAGGACAGAAG
AAAGCTGCTGGACCACCCTCAGGGCAGGCTGATTCTGTGACTCACATCTGTGTCCCCCAAACCCATG
TACAGCCTCTGGAGGATGATCTCTGTTATGCAAACCTGTCACTGCAGCAGCCAGAACCTCCCCTTTGAA
AAAGGGCTCCTCCATGTCTCTCTGGCAAGGACCACCAAGAGGAAGTGAATACGTACCATGGCTCCC
TTCCCTAGGGAGGAGATTCATACGCTGCTCTGTCTTTGGCGAGCTTGGGTGAGAACCTACTTACAGCA
ACACTGCCTGCTTGTACCCATGGTCCCAGGACAAACCTTGGAGAGGAGACCACAGGTACAGCAGCAT
CAGGAGGCCATGCCT**TGA**

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001025111



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Insert Size:	999 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001025111.1</u> , <u>NP_001020282.1</u>
RefSeq Size:	1818 bp
RefSeq ORF:	999 bp
Locus ID:	287818
UniProt ID:	<u>Q566E6</u>
Cytogenetics:	10q32.1
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p>