

Product datasheet for **MC212666**

Cd300a (NM_170758) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd300a (NM_170758) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cd300a
Synonyms:	B230315M08Rik; Clm8; LMIR1; MAIR-I; MAIR-Ia; mcpir1; MMAC8; Pigr4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_170758, the custom clone sequence may differ by one or more nucleotides

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ATGACCCAACCTGGCCCTCAGCTGTGTGGCTGCCACACTGTTGCTGCTGCTGCTGCTTTTTGGCTTCCAG
GCTGTGTCCTCTGCATGGTCCCAGCACCATGTCAGGAAGTGTAGGTGAATCCCTGAGTGTGCATGTCG
ATATGAGGAGAAATCAAGACTAAGGACAAATACTGGTGCAGAGTGCACCTAAGATACTATGTAAGAT
ATTGTCAAGACCAGCAGCTCAGAAGAAGCTAGGAGTGGCCGAGTGACCATCAGGGACCATCCAGACAACC
TCACCTTTACAGTGACCTATGAGAGCCTCACCTGGAGGATGCAGACACCTACATGTGTGCGGTGGATAT
ATCACTTTTTGATGGCTCCTTGGGGTTCGATAAGTACTTCAAGATTGAGTTGCTGTGGTCCAAGTGAG
GACCCAGTTTCATCTCCAGGACCAACACTAGAGACACCTGTGGTGTCCACCAGTCTGCCTACCAAGGGTC
CCGCCCTAGGATCCAACACAGAGGGCCACCGTGAACATGACTATCCAGGGCTTGAGGCTCCAGCGCT
GTTGTCTGTGTTAGCTCTCCTGCTGTTTCTGTTGGTGGGACCTCTCTGCTGGCCTGGAGGATGTTCCAG
AAGCGGCTGGTCAAAGCTGATAGGCATCCAGAGCTGTCCAGAACCTCAGACAGGCTTCTGAGCAGAATG
AGTGCCAGTATGTGAATTTGCAGCTGCACACGTGGTCTCTGAGGGAAGAGCCGGTGTACCAAGTCAGGT
AGAAGTGGTGAATATAGCACATTGGCATTACCCAGGAAGAGCTTCACTATTATCCGTGGCATTCAAC
TCCCAGAGGCAGGATTCTCAGCCAATGGAGATTCTCTTCATCAACCTCAGGACCAGAAAGCAGAGTACA
GTGAGATCCAGAAGCCCAGAAAAGGACTCTCTGACCTTTACCTGTGA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_170758
Insert Size:	957 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC139296](#), [AAI39297](#)

RefSeq Size: 3143 bp

RefSeq ORF: 957 bp

Locus ID: 217303

UniProt ID: [Q6SJQ0](#)

Cytogenetics: 11 80.54 cM

Gene Summary: Inhibitory receptor which may contribute to the down-regulation of cytolytic activity in natural killer (NK) cells, and to the down-regulation of mast cell degranulation (PubMed:12874256, PubMed:12893283, PubMed:16339535). Negatively regulates the Toll-like receptor (TLR) signaling mediated by MYD88 but not TRIF through activation of PTPN6 (By similarity). [UniProtKB/Swiss-Prot Function]