

## Product datasheet for MR224901

### Cd300a (NM\_170758) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cd300a (NM_170758) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>MR224901 representing NM_170758 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCAACGGCCTCAGCTGTGTGGCTGCCACACTGTTGCTGCTGCTGCTGCTTTTTGGCTTCCAG  
GCTGTGCCCTCTGCATGGTCCCAGCACCATGTCAGGAAGTGTAGGTGAATCCCTGAGTGTGCATGTGCG  
ATATGAGGAGAAATCAAGACTAAGGACAAATACTGGTGCAGAGTGTCACTTAAGATACTATGTAAGAT  
ATTGTCAAGACCAGCAGCTCAGAAGAAGCTAGGAGTGGCCGAGTGACCATCAGGGACCATCCAGACAACC  
TCACCTTTACAGTGACCTATGAGAGCCTCACCTGGAGGATGCAGACACCTACATGTGTGCGGTGGATAT  
ATCACTTTTGTAGGCTCCTTGGGTTCGATAAGTACTTCAAGATTGAGTTGCTGTGGTTCCAAGTGAG  
GACCCAGTTTCATCTCCAGGACCAACACTAGAGACACCTGTGGTGTCCACCACTGCTGCTACCAAGGGTC  
CCGCCCTAGGATCCAACACAGAGGGCCACCGTGAACATGACTATCCAGGGCTTGAGGCTCCCAGCGCT  
GTTGTCTGTGTTAGCTCTCTGCTGTTTCTGTTGGTGGGACCTCTCTGCTGGCCTGGAGGATGTTCCAG  
AAGCGCTGGTCAAAGCTGATAGGCATCCAGAGCTGTCCAGAACCTCAGACAGGCTTCTGAGCAGAATG  
AGTGCCAGTATGTGAATTTGCAGCTGCACACGTGGTCTCTGAGGGAAGAGCCGGTGTACCAAGTCAGGT  
AGAAGTGGTGAATATAGCACATTTGCCATTACCCAGGAAGAGCTTCACTATTCATCCGTGGCATTCAAC  
TCCCAGAGGCAGGATTCTCACGCCAATGGAGATTCTTTCATCAACCTCAGGACCAGAAAGCAGAGTACA  
GTGAGATCCAGAAGCCAGAAAAGGACTCTCTGACCTTTACCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR224901 representing NM\_170758  
Red=Cloning site Green=Tags(s)

MTQLASAVWLPTLLLLLLFWLPGCVPLHGPSTMSGVSGESLSVSCRVEEFKTKDKYWCVRVSLKILCKD  
 IVKTSSEEARSGRVTIRDHPDNLFTFTVYTESLTLEDADTYMCAVDISLFDGSLGFDKYFKIELSVVPSE  
 DPVSSPGPTLETPVVSTSLPTKGPALGSNTEGHRHDYSQGLRLLPALLSVLALLLFLLVGTSLLAWRMFQ  
 KRLVKADRHPQLSQNLRQASEQNECQYVNLQLHTWSLREEPVLP SQVEVVEYSTLALPQEELHYSSVAFN  
 SQRQDSHANGDSLHQPDQKAQEYSEIQKPRKGLSDLYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_170758

**ORF Size:** 954 bp

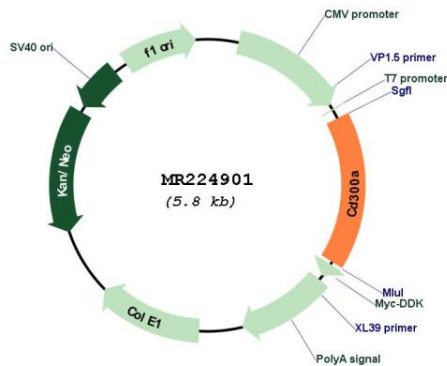
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_170758.4</u>
<b>RefSeq Size:</b>	4642 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	217303
<b>UniProt ID:</b>	<u>Q6SJQ0</u>
<b>Cytogenetics:</b>	11 80.54 cM
<b>MW:</b>	36.1 kDa
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for MR224901