

Product datasheet for **RR201209**

Cd96 (NM_001025032) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd96 (NM_001025032) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd96
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR201209 representing NM_001025032
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGAAGAAAATGGACATACTGTGTGGTTTACGCCATCATCCAGATACAGTTTTTCAGGGGAGCATGGG
 AAGAACTATTCAATGCTGGAGATAACAACGTGTATGCTCTGCCTGGTTCTGATGTCAACTTGACCTGCCA
 AACAAATGGAGAAAAGACTTAATGGTTTCAAGTGCAGTGGTCCAAGGTCACAGATGAGATTGATATGATTGTT
 GTTTATCATCCCCAATATGGCTTCCACTATATGCAGGGGGTTGCCTGTGAGTCACGAGTGGCTGCGGTAG
 AAACCTGAAGGATGCAACGAAATGGACTCTGAACTTAAGGAATATCTCTTCCAGCCTCAGTGGAAAGTA
 TGAGTGCAGCTTCACTATGTATCCAACAGGCACCAAGACTATAGTCTACAACCTCATTGTGGAACCTTAT
 ACACAAGATGAACACAACCGTACAATAGAAATAGAGACAAATCGGACTCTGGAAATACCATGCTTTCAA
 ATACCTCCTCAGAAATTTACCTAGGTTACCTTTTCATGGTTGGTGGAGAAAGATGGAGTGAAGACGT
 TCTCTTACCTACGATTACCACGTCAGCAATTCACAGCATTTAAAGGCAGAGTTGGGCTGGGTGCAGAC
 TATGGACTCCGCCTCTCCCCAGTCCAAATCCAAGATGATGGCAGGACATTCTCTTCTTCTGAGAATCA
 GTCCTCTCAAAGTCTGGAAGACATCCACCACAGTCAAGGTTTTTGCTAAGCCAGAATCCTCATGACTGT
 GGAAAACACCACCATGGATGTCTTAGGAGAGAGATTTTACCTGCCTTCTGAAGAATGTTTTCCCCAAA
 GCAAGTATTACCTGGTTAATAGATGGAAGACTTTTTCAAGGCAATGAAGAAGGAATATACATTACAAATG
 AAGAAAAAATAGCAGTAGCGGATTTTGGGAAGTGAAGTCGGTTCTAACAAAGGATGCACAATAGAATC
 CCAATCAAACAATATGACAGTTTGGTGTATGGCTCTGTGCCAGGCCCTGGAAATAAAATGTGGAATACT
 TCATCACAACCCATCACATTTTCTTGGATTCTGGGACTGCCCAACAAAACGTCTACCCAATGTGACAG
 GTTCTACCTGGGTGCACAAACCTTTCCAGATGCCGAAGTATCTCCTACAAGATATCTAGCTCATCTTC
 AATGACAATTGTAGATGAAAATGTGTTGACACCAGACCCAACTCCTCAAACCAGCAATTCAGCATGACT
 ACTAAAGATGTCAACTATTTCCAGCCCTCCAGTGGGACAGATGCCAAGAATCCTCAAGACTGCTTCTT
 CTTCTGATGGTGGATCTCGGCCTTTTCTTCCACCTCTCCTCCAAATGGCTCTCACTGCCTCATACTTC
 CACTGGACCCAGGAACCCAGACTCCGCAGTTTTCATGGATACCAACAGATGCGTACACTTCAGGCTCTTCA
 GATGCAAGCTTAACTTCTCAGATGTATCATCCGTACAACAAAGAATTTCCAGATGTCCTCACAACCTG
 CAAATGGAAGTACTAAAATTAACATGGCCACGTACAGGAATCACAGTTAATAAGCCAGAGATGGAAT
 GTCCTGGCTGTGGCTGTGCGACTTTGCTATTTTCTGCATACTGTTGTTTGGGCTGGAGTGAGAAAA
 TGGTGTAGTATCAAAGGAAATCATGAAAGACCCCCACCTTTCAAGCCACCACCCTCCCATCAAGT
 ACATGTGCATTAGGAACCCACTGGACGTGGCATGCCTTGTGATGAGATGGAGGTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201209 representing NM_001025032
 Red=Cloning site Green=Tags(s)

MGRKWTYCVVYAI IQI QF FRGAW EELFNAGDNNVYALPGSDVNLTCQTMEKDLMVQM QWSKV TDEIDMIV
 VYHPQYGFHYMQVACE SRVAAVETLKDATKWTLNLRNISSSLSGKYEC SFTMYPTGKTI VYVNI VEPY
 TQDEHNRTIEIETNRTLEIPCFQNTSSEI SPRFTFSWLVEKDGVEDVLFYDYHVSNSTAFKGRVGLGAD
 YGLR LSPVQIQDDGR TFS CFLRISPLK VVK TSTTVKVF AKPEILMTVENTMDVLGERVFTCLLKNVFPK
 ASITWLIDGR LFQNEEGIYITNEEKNSSSGFWELKSVL TRMHNRTS QSNM TVWCMALSPGPGNKMWNT
 SSQPITFSLDSGTAPT KRLPNVTGSTLGAQTFPDAEVS PTRYLATSSMTIVDENVLTPDPTPQTSNS SMT
 TKDVNYSQPSSGTDAKNS SRAASSDGGSRFPST SPPKWL SLPHSTG PQEPDSAVSWIPTDAYTS GSS
 DASL TSHDVI IRTTKEFPDVLTTANGTTIKHGHVTGITV NKPRDGMSWPVAVATLLFFCILLFGLGVRK
 WCQYQKEIMERPPPFKPPPPPIKYMCIQEPTGRGMPCHEMEVL

TRTRPLEQKLISEEDLAANDILDYKDDDDK V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001025032

ORF Size: 1809 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_001025032.1](#), [NP_001020203.1](#)

RefSeq Size: 2079 bp

RefSeq ORF: 1812 bp

Locus ID: 498079

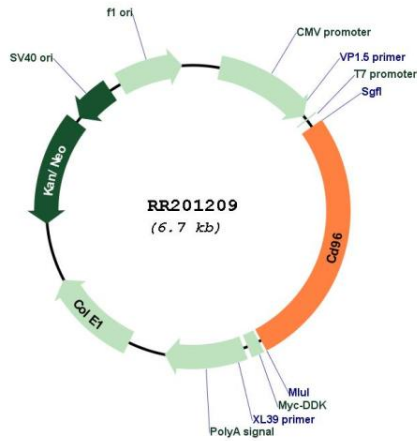
UniProt ID: [Q5BK49](#)

Cytogenetics: 11q21

MW: 67.2 kDa

Gene Summary: May be involved in adhesive interactions of activated T and NK cells during the late phase of the immune response. Promotes NK cell-target adhesion by interacting with PVR present on target cells. May function at a time after T and NK cells have penetrated the endothelium using integrins and selectins, when they are actively engaging diseased cells and moving within areas of inflammation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR201209