

## Product datasheet for **MR209879**

### **Cd6 (NM\_009852) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cd6 (NM_009852) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR209879 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTGGCTCTTCCTTGGGATCGCTGGATTGCTGACAGCAGTTCTCTCAGGTCTCCATCTCCAGCCCCCT  
 CTGGCCAGCACAAAAATGGCACCATCCCGAACATGACCTTGGACCTAGAGGAGCGGCTGGGATTTCGCT  
 GGTGAACGGGAGCAGTCGCTGCAGCGGATCTGTGAAGTTCTACTGGAGTCTGGGAGCCTGTGTGTGCG  
 GCACACTGGAACAGGGCTGCTACGGAGGCTGTGTGCAAAGCGCTGAACTGTGGTATTCGGGAAAGGTTA  
 CCTACCTGATGCCACCCACCTCTGAGCTTCCACAGGAGCCACTTCTGGGAACACAAGCAGCGCCGGGAA  
 TACGACGTGGGCGCGGCCACCAACTGAGAGATGCAGGGGAGCCAATTGGCAGTTCTGCAAGGTGCAGGAC  
 CAGGAGTGTAGCAGCGACAGGCGGCTGGTGTGGGTACCTGTGCAGAGAACCAAGCGGTGCGGTTAGTGG  
 ATGGTAGCAGCCGCTGTGCTGGCCGAGTGGAGATGCTGGAGCATGGTGAATGGGGTACCGTGTGCGACGA  
 CACGTGGGACCTGCAGGATGCACACGTAGTGTGAAGCAACTGAAGTGGCGCTGGGCAGTGAAGGCCTG  
 GCCGGCTTGCACCTCACCCAGGCCAAGGACCCATCCACCGCATCAGGTGAACTGCTCTGGGACTGAGG  
 CTTACCTGTGGGACTGCCCGGGACGGCCAGGAGACCAGTACTGTGGTCAACAAGGAGGACGACGAGGTGGT  
 GTGCTCAGAGACCAATCCTGGCGCCTGACTGGAGGCATTGACTCCTGCGAAGGGCAAGTGGAAAGTGTAC  
 TTCCGGGTGTCTGGAGCACGGTGTGTGACAGCGAGTGGTACCCATCTGAGGCCAAAGTGTCTGTGCGT  
 CCTTGGTTGCGGATCAGCAGTGGCTCGGCCAGGGGGCTGCCACACTCCCTGGACGGTAGAATGTACTA  
 CTCCTGCAAAGGACAGGAGCCCGCCCTCAGCACCTGTTCTGGCGGTTCAACAACCTCAACCTGTGCAGC  
 CAGTCGCGGGCAGCCAGGGTTGTCTGCTCAGGCTCCCAGAGACATCTCAATCTGTCTACTTCTGAAGTGC  
 CTTCCAGAGTTCAGTCACGATAGAATCTTCTGTGCCGGTGAAGGATAAGGACTCACAAGGGCT  
 GACACTTCTCATTCTGTATTGTCCTGGGAATCTCCTCCTCGTCTCCACCATCTCATAGTTATTCTT  
 CTCTTGAGAGCCAAAGGACAATACGCCCTCCCTGCTTCAGTGAACCACCAGCAACTGTCTACTGCCAACC  
 AAGCAGGGATCAATAACTACCATCCTGTCCCTATCACCATTGCCAAAGAAGCTCCTATGCTGTTTATCCA  
 GCCCGGGTCCCTGCAGACTCGGACTCCAGTTCTGACTCCGACTATGAGCACTATGACTTCAGCTCCAG  
 CCGCCTGTGGCCCTGACCACCTTCTACAATTCCCAGCGACACCGGGTACAGAGGAGGAAGCTCAGCAGA  
 ACAGGTTTCAGATGCCACCCTTGGAGGAAGGACTTGAAGAGCTGCATGTTTCCACATCCCAGCGGCTGA  
 CCCCAGACCCTGTGTGGCAGATGTCCCCTCTCGGGGCTCTCAGTACCACGTGAGGAACAACAGTATTCC  
 AGCACCTCCTCTGAGGAGGGCTACTGCAATGATCCCAGCAGCAAGCCACCTCCATGGAATCCCAGGCGT  
 TTTATTCTGAGAAGAGTCCCCTCACAGAGCAGCCCCCAACTTGGAACTGGCTGGCTCTCCGGCAGTGT  
 TTCAGGGCCCTCAGCCGATGACAGCTCCAGCACCTCATCCGGAGAGTGGTACCAGAAGTCCAGCCACCA  
 CCCCAGCATCCTCCAGCAGAACAGTTTGAATGTCCAGGACCCCTGGCCCCAAACAGACTCCATTGATG  
 AGGAGGAGGAGGATTACGATGACATCGGAGCAGCC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209879 protein sequence  
Red=Cloning site Green=Tags(s)

```
MWLFGLIAGLLTAVLSGLPSPAPSGQHKNGTIPNMTLDLEERLGIRLVNGSSRCSGSVKVLLESWEPVCA
AHWNRAATEAVCKALNCGDSGKVTYLMPTSELPPGATSGNTSSAGNTTWARAPTERCRGANWQFCKVQD
QECSSDRRLVWVTC AENQAVRLVDGSSRCAGRVELEHGEWGTVCDDTWLDQDAHVVCKQLKCGWAVKAL
AGLHFTPGQGP IHRDQVNC SGTEAYLWDCPGRPGDQYCGHKEDAGVVCSEHQSWRLTGGIDSCEGQVEVY
FRGVWSTVCDSEWYPSEAKVLCRSLGCGSAVARPRGLPHSLDGRMYYSCKGQEPALSTCSWRFNNSNLCS
QSR AARVVCSGSRHLNLSTSEVPSRVPVTIESSVPSVKDKDSQGLTLLILCIVLGILLVSTIFIVIL
LLRAKQGYALPASVNHQQLSTANQAGINNYHPVPIITIAKEAPMLFIQPRVPADSDSSSDSYEHYDFSSQ
PPVALTTFYNSQRHRVTEEEAQQNRFQMPLEEGLEELHVSHIPAADPRPCVADVPSRGSQYHVRNNSDS
STSSEEGYCNDPSSKPPWNSQAFYSEKSPLTEQPPNLELAGSPAVFSGPSADSSSTSSGEWYQNFQPP
PQHPPAEQFECPPGPPQTDSIDEEEDYDDIGAA
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009852

**ORF Size:** 1998 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\\_009852.2](#)

**RefSeq Size:** 3034 bp

**RefSeq ORF:** 1998 bp

**Locus ID:** 12511

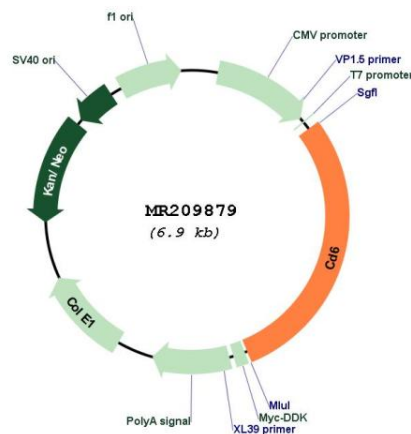
**UniProt ID:** [Q61003](#)

**Cytogenetics:** 19 7.16 cM

**MW:** 72.3 kDa

**Gene Summary:** Cell adhesion molecule that mediates cell-cell contacts and regulates T-cell responses via its interaction with ALCAM/CD166. Contributes to signaling cascades triggered by activation of the TCR/CD3 complex (PubMed:24584089). Functions as costimulatory molecule; promotes T-cell activation and proliferation. Contributes to the formation and maturation of the immunological synapse. Functions as calcium-dependent pattern receptor that binds and aggregates both Gram-positive and Gram-negative bacteria. Binds both lipopolysaccharide (LPS) from Gram-negative bacteria and lipoteichoic acid from Gram-positive bacteria. LPS binding leads to the activation of signaling cascades and down-stream MAP kinases. Mediates activation of the inflammatory response and the secretion of pro-inflammatory cytokines in response to LPS.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR209879