

Product datasheet for **MR218141**

Cd6 (NM_001037801) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd6 (NM_001037801) 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:

>MR218141 representing NM_001037801
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGCTCTTCCTTGGGATCGCTGGATTGCTGACAGCAGTTCTCTCAGGTCTCCATCTCCAGCCCCCT
 CTGGCCAGCACAAAAATGGCACCATCCCGAACATGACCTTGGACCTAGAGGAGCGGCTGGGATTTCGCT
 GGTGAACGGGAGCAGTCGCTGCAGCGGATCTGTGAAGTTCTACTGGAGTCTGGGAGCCTGTGTGTGCG
 GCACACTGGAACAGGGCTGCTACGGAGGCTGTGTGCAAAGCGCTGAACTGTGGTATTCGGGAAAGGTTA
 CCTACCTGATGCCACCCACCTCTGAGCTTCCACCAGGAGCCACTTCTGGGAACACAAGCAGCGCCGGAA
 TACGACGTGGGCGCGGCCACCAACTGAGAGATGCAGGGGAGCCAATTGGCAGTCTGCAAGTGCAGGAC
 CAGGAGTGTAGCAGCGACAGGCGGCTGGTGTGGGTACCTGTGCAGAGAACAAGCAGTGCGGTTAGTGG
 ATGGTAGCAGCCGCTGTGCTGGCCGAGTGGAGATGCTGGAGCATGGTGAATGGGGTACCGTGTGCGACGA
 CACGTGGGACCTGCAGGATGCACACGTAGTGTGAAGCAACTGAAGTGGCGCTGGCAGTGAAGGCCTG
 GCCGGCTTGCACCTCACCCAGGCCAAGGACCCATCCACCGCATCAGGTGAACTGCTCTGGGACTGAGG
 CTTACCTGTGGGACTGCCCGGGACGGCCAGGAGACCAGTACTGTGGTCAACAAGGAGGACGACGAGTGGT
 GTGCTCAGAGCACCAGTCTGGCGCTGACTGGAGGCATTGACTCCTGCGAAGGGCAAGTGGAAAGTGTAC
 TTCCGGGTGTCTGGAGCACGGTGTGTGACAGCGAGTGGTACCCATCTGAGGCCAAAGTGTCTGTCCGT
 CCTTGGGTTGCGGATCAGCAGTGGCTCGGCCAGGGGGCTGCCACACTCCCTGGACGGTAGAATGTACTA
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 CAGTCGCGGGCAGCCAGGGTTGTCTGCTCAGGCTCCAGAGACATCTCAATCTGTCTACTTCTGAAGTGC
 CTTCCAGAGTCCAGTCACGATAGAATCTTCTGTGCCGGTGAAGGATAAAGGATCACAAGGGCT
 GACACTTCTCATTCTGTATTGTCCTGGGAATCTCCTCCTCGTCTCCACCATCTCATAGTTATTCTT
 CTCTTGAGAGCCAAGGACAATACGCCCTCCCTGCTTCAGTGAACCACCAGCAACTGTCTACTGCCAAC
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 CACAGAGGAGGAAGTCAAGCAGAACAGGTTTCAGATGCCACCCTTGGAGGAAGGACTTGAAGAGCTGCAT
 GTTCCACATCCAGCGGCTGACCCAGACCCTGTGTGGCAGATGTCCCTCTCGGGGCTCTCAGTACC
 ACGTGAGGAACAACAGTATTCCAGCACCTCTCTGAGGAGGGCTACTGCAATGATCCAGCAGCAAGCC
 ACCTCCATGGAATCCAGGCGTTTTTCTGAGAAGAGTCCCCTCACAGAGCAGCCCCCAACTGGAA
 CTGGCTGGCTCTCGGCAGTGTTCAGGGCCCTCAGCCGATGACAGCTCCAGCACCTCATCCGGAGAGT
 GGTACCAGAACTCCAGCCACCACCCAGCATCCTCCAGCAGAACAGTTGAATGTCCAGGACCCCTGG
 CCCCCAACAGACTCCATTGATGATGATGAGGAGGATTACGATGACATCGGTGCAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218141 representing NM_001037801
 Red=Cloning site Green=Tags(s)

MWLFLGIAGLLTAVLSGLPSPAPSGQHKNGTIPNMTLDLEERLGIRLVNGSSRCSGSKVLLLESWEPVCA
 AHNWRAATEAVCKALNCGDSGKVTYLMPPTSELPPGATSGNTSSAGNTTWARAPTERCRGANWQFCKVQD
 QECSSDRRLVWVTCANQAVRLVDGSSRCAGRVEMLEHGEWGTVCDDTWDLQDAHVVCKQLKCGWAVKAL
 AGLHFTPGQPIHRDQVNCSGTEAYLWDCPGRPGDQYCGHKEDAGVVCSEHQSWRLTGGIDSCGQVEVY
 FRGVWSTVCDSEWYPSEAKVLCRSLGCSAVARPRGLPHSLDGRMYYSCKGQEPALSTCSWRFNNSNLCS
 QSRAARVVCSGSQRHLNLSTSEVPSRPVPTIIESSVPVSVKDKDSQGLTLLILCIVLGILLVSTIFIVIL
 LLRAKGQYALPASVNHQQLSTANQAGINNYHPVITIAKEDSQRHRVTEEEAQNRFMPPLEEGLEELH
 VSHIPAADPRPCVADVPSRGSQYHVRNNSDSSSTSEEGYCNDPSSKPPPWNSQAFYSEKSPLTEQPPNLE
 LAGSPA VFSGPSADDSSSTSSGEWYQNFQPPPQHPPAEQFECGPPGPQTDSIDDEEDYDDIGAA

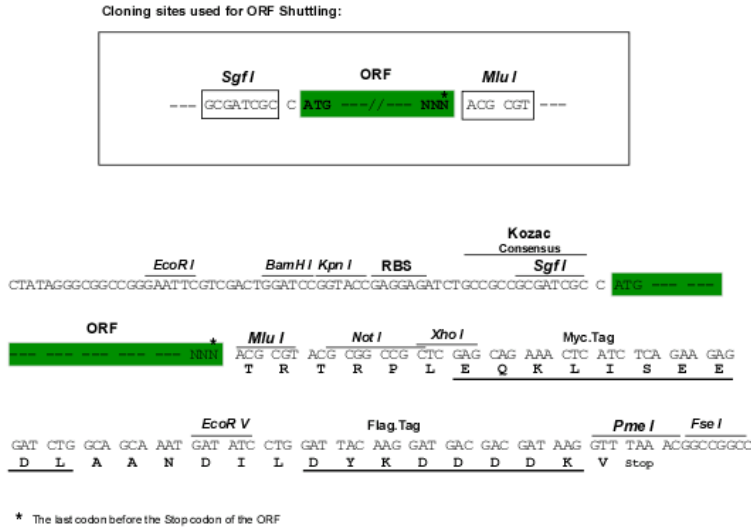
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9028_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001037801

ORF Size: 1878 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_001037801.2](#), [NP_001032890.1](#)

RefSeq Size: 2917 bp

RefSeq ORF: 1881 bp

Locus ID: 12511

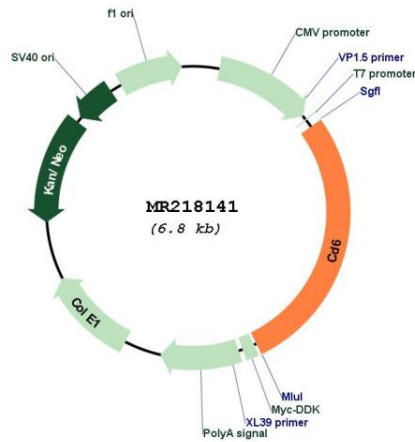
UniProt ID: [Q61003](#)

Cytogenetics: 19 7.16 cM

MW: 68.3 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 MR218141