

Product datasheet for **MG218141**

Cd6 (NM_001037801) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd6 (NM_001037801) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cd6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218141 representing NM_001037801
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGCTCTTCCTTGGGATCGCTGGATTGCTGACAGCAGTTCTCTCAGGTCTCCATCTCCAGCCCCCT
 CTGGCCAGCACAAAAATGGCACCATCCCGAACATGACCTTGGACCTAGAGGAGCGGCTGGGATTTCGCCT
 GGTGAACGGGAGCAGTCGCTGCAGCGGATCTGTGAAGTTCTACTGGAGTCTGGGAGCCTGTGTGTGCG
 GCACACTGGAACAGGGCTGCTACGGAGGCTGTGTGCAAAGCGCTGAACTGTGGTATTCGGGAAAGGTTA
 CCTACCTGATGCCACCCACCTCTGAGCTTCCACCAGGAGCCACTTCTGGGAACACAAGCAGCGCCGGGAA
 TACGACGTGGGCGCGGCCACCAACTGAGAGATGCAGGGGAGCCAATTGGCAGTCTGCAAGGTGCAGGAC
 CAGGAGTGTAGCAGCGACAGGCGGCTGGTGTGGGTACCTGTGCAGAGAACAAGCAGTGCGGTTAGTGG
 ATGGTAGCAGCCGCTGTGCTGGCCGAGTGGAGATGCTGGAGCATGGTGAATGGGGTACCGTGTGCGACGA
 CACGTGGGACCTGCAGGATGCACACGTAGTGTGAAGCAACTGAAGTGGCGCTGGGCAGTGAAGGCCTG
 GCCGGCTTGCACCTCACCCAGGCCAAGGACCCATCCACCAGGATCAGGTGAACTGCTCTGGGACTGAGG
 CTTACCTGTGGGACTGCCCGGGACGGCCAGGAGACCAGTACTGTGGTCAACAAGGAGGACGACGAGTGGT
 GTGCTCAGAGCACCAGTCTGGCGCCTGACTGGAGGCATTGACTCCTGCGAAGGGCAAGTGGAAAGTGTAC
 TTCCGGGTGTCTGGAGCACGGTGTGTGACAGCGAGTGGTACCCATCTGAGGCCAAAGTGTCTGTCCGT
 CCTTGGGTTGCGGATCAGCAGTGGCTCGGCCAGGGGGCTGCCACACTCCCTGGACGGTAGAATGTACTA
 CTCCTGCAAAGGACAGGAGCCCGCCCTCAGCACCTGTTCTGGCGGTTCAACAACCTCAACCTGTGCAGC
 CAGTCGCGGGCAGCCAGGGTGTCTGCTCAGGCTCCAGAGACATCTCAATCTGTCTACTTCTGAAGTGC
 CTTCCAGAGTCCAGTCACGATAGAATCTTCTGTGCCGGTGAAGGATAAAGGATCACAAGGGCTG
 GACACTTCTCATTCTGTATTGCTGGGAATCTCCTCCTCGTCTCCACCATCTCATAGTTATTCTT
 CTCTTGAGAGCCAAGGACAATACGCCCTCCCTGCTTCAGTGAACCACCAGCAACTGTCTACTGCCAACCC
 AAGCAGGGATCAATAACTACCATCCTGTCCCTATCACCATTGCCAAAGAAGATCCACGCGACACCGGGT
 CACAGAGGAGGAAGTCAAGCAGAACAGGTTTCAGATGCCACCCTTGGAGGAAGGACTTGAAGAGCTGCAT
 GTTCCACATCCAGCGGCTGACCCAGACCCTGTGTGGCAGATGTCCCTCTCGGGGCTCTCAGTACC
 ACGTGAGGAACAACAGTATTCCAGCACCTCCTCTGAGGAGGGCTACTGCAATGATCCACGACGAAAGCC
 ACCTCCATGGAATCCAGGCGTTTTATTCTGAGAAGAGTCCCCTCACAGAGCAGCCCCCAACTGGAA
 CTGGCTGGCTCTCCGGCAGTGTTCAGGGCCCTCAGCCGATGACAGCTCCAGCACCTCATCCGGAGAGT
 GGTACCAGAACTCCAGCCACCACCCAGCATCCTCCAGCAGAACAGTTGAATGTCCAGGACCCCTGG
 CCCCCAACAGACTCCATTGATGATGATGAGGAGGATTACGATGACATCGGTGCAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218141 representing NM_001037801
 Red=Cloning site Green=Tags(s)

MWLFLGIAGLLTAVLSGLPSPAPSGQHKNGTIPNMTLDLEERLGIRLVNGSSRCSGSVKVLLSWEPVCA
 AHWNRATEAVCKALNCGDSGKVTYLMPPTSELPPGATSGNTSSAGNTTWARAPTERCRGANWQFCKVQD
 QECSSDRRLVWVTCANQAVRLVDGSSRCAGRVEMLEHGEWGTVCDDTWDLQDAHVVCKQLKCGWAVKAL
 AGLHFTPGQPIHRDQVNCSGTEAYLWDCPGRPGDQYCGHKEDAGVVCSEHQSWRLTGGIDSECGQVEVY
 FRGVWSTVCDSEWYPSEAKVLCRSLGCGSAVARPRGLPHSLDGRMYYSCKGQEPALSTCSWRFNNSNLCS
 QSRAARVVCSSQRHLNLSTSEVPSRVPVTIESSVPSVKDKDSQGLTLLILCIVLGILLVSTIFIVIL
 LLRAKGQYALPASVNHQQLSTANQAGINNYHPVPIIAKEDSQRHRVTEEEAQQNRFFQMPPLEEGLEELH
 VSHIPAADPRPCVADVPSRGSQYHVRNNSDSSTSSEEGYCNDPSSKPPPWNQAFYSEKSPLEQPPNLE
 LAGSPA VFGSPSADSSSTSSEGEWYQNFQPPPQHPPAEQFCECPGPPGPQTDSIDDEEDYDDIGAA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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
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]