

Product datasheet for **SC303816**

CD6 (NM_006725) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD6 (NM_006725) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD6
Synonyms:	TP120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC303816 representing NM_006725.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGTGGCTTTCTTCGGGATCACTGGATTGCTGACGGCAGCCCTCTCAGGTCATCCATCTCCAGCCCCA
CTTGACCAGCTCAACACCAGCAGTGCAGAGAGTGCAGCTCTGGAGCCAGGGGAGCGGCTTCCGGTCCGT
CTGACAAACGGGAGCAGCAGCTGCAGCGGGACGGTGGAGGTGCGGCTCGAGGCGTCTGGGAGCCCGCG
TGGCGGGCGCTCTGGGACAGCCGCGCCGAGGCCGTGTGCCGAGCACTGGGCTGCGGGCGGGCGGAG
GCCGCTCTCAGCTCGCCCCGCCAGCCCTGAGCTGCCGCCCGCCCTGCAGCCGGGAACACCAGCGTA
GCAGCTAATGCCACTCTGGCCGGGGCGCCGCCCTCTGTGCAGCGGGCCGAGTGGCGGCTCTGCGAG
GTGGTGGAGCACGCTGCCGACGACGGGAGGCGGGCCCGTGTACCTGTGCAGAGAACCAGCGCGCTG
CGCCTGGTGGACGGTGGCGGCGCTGCCCGGCCCGTGGAGATGCTGGAGCATGGCGAGTGGGGATCA
GTGTGCGATGACTTGGGACCTGGAGGACGCCACGTGGTGTGCAGGCAACTGGGCTGCGGCTGGGCA
GTCCAGGCCCTGCCCGGCTTGCCTTACGCCCCGGCCGCGGGCTATCCACCGGGACCAGGTGAAGTGC
TCGGGGGCGGAAGCTTACCTGTGGGACTGCCCGGGGCTGCCAGGACAGCACTACTGCGGCCACAAAGAG
GACGCGGGCGCGGTGTGCTCAGAGCACCAGTCTGGCGCCTGACAGGGGGCGCTGACCGCTGCGAGGGG
CAGGTGGAGGTACTTCCGAGGGGTCTGGAACACAGTGTGTGACAGTGAAGTACCCATCGGAGGCC
AAGGTGCTCTGCCAGTCTTGGGCTGTGGAAGTGCAGTGGAGGGCCAAAGGGGCTGCCCACTCCTTG
TCCGGCAGGATGTACTACTCATGCAATGGGGAGGAGCTCACCCCTCCAAGTCTCTGGCGTTCAAC
AACTCCAACCTCTGCAGCCAGTCCGTGGCAGCCAGGGTCTCTGCTCAGTTCGGGAGTTTGCACAAT
CTGTCCACTCCGAAGTCCCTGCAAGTGTTCAGACAGTCACTATAGAATCTTCTGTGACAGTGAAAATA
GAGAACAAGGAATCTCGGGAGCTAATGCTCCTCATCCCTCATCCCTCCATCGTTCTGGGAATCTCCTCCTGGC
TCCTCATCTTATAGCCTTATCCTCTTGAGAATTAAGGAAAATATGCCCTCCCGTAATGGTGAAC
CACCAGCACCTACCCACCACCATCCCGGAGGGAGCAATAGCTATCAACCGGTCCCATCACCATCCCC
AAAGAAGTTTTATGCTGCCATCCAGGTCCAGGCCCGCCCGCCCTGAGGACTCAGACTCTGGCTCGGAC
TCAGACTATGAGCACTATGACTTCAGCGCCAGCCTCCTGTGGCCCTGACCACCTTCTACAATCCAG
CGGCATCGGGTACAGATGAGGAGGTCCAGCAAAGCAGGTTCCAGATGCCACCCTTGAGGAAGGACTT
GAAGAGTTGCATGCCTCCACATCCCAACTGCCAACCTGGACTGCATTACAGACCCGCCATCCCTG
GGCCCTCAGTATACCCGAGGAGCAACAGTGCAGTGCAGCACCTTTCAGGGGAGGATTCTGCAATAGT
CCCAAAAGCAAGCTGCCTCCATGGAACCCAGGTGTTTTCTTTCAGAGAGGATTCTTCTGAGCAG
CCCCAAACTTGAGCTGGCCGGCACCCAGCCAGCCTTTTCAGCAGGGCCCCCGGCTGATGACAGCTCC
AGCACCTCATCCGGGAGTGGTACCAGAACTTCCAGCCACCACCCAGCCCCCTTCGGAGGAGCAGTTT
GGCTGTCCAGGGTCCCCAGCCCTCAGCCTGACTCCACCGACAACGATGACTACGATGACATCAGCGCA
GCCTAG
ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAG
GATGACGACGATAAGGTTTAAACGGCCGGCCGCGT
  
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Restriction Sites: SgfI-NotI
ACCN: NM_006725
Insert Size: 2007 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 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_006725.4](#)

RefSeq Size: 3309 bp

RefSeq ORF: 2007 bp

Locus ID: 923

UniProt ID: [P30203](#)

Cytogenetics: 11q12.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

MW: 71.8 kDa

Gene Summary:

This gene encodes a protein found on the outer membrane of T-lymphocytes as well as some other immune cells. The encoded protein contains three scavenger receptor cysteine-rich (SRCR) domains and a binding site for an activated leukocyte cell adhesion molecule. The gene product is important for continuation of T cell activation. This gene may be associated with susceptibility to multiple sclerosis (PMID: 19525953, 21849685). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest protein (isoform 1).