

Product datasheet for SC313172

CD46 (NM_172356) Human Untagged Clone

Product data:

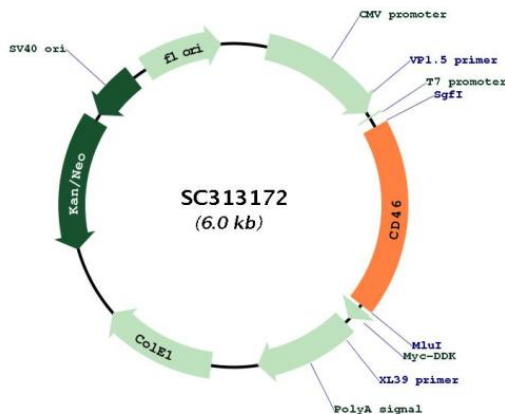
Product Type:	Expression Plasmids
Product Name:	CD46 (NM_172356) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD46
Synonyms:	AHUS2; MCP; MIC10; TLX; TRA2.10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313172 representing NM_172356. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCCTCCCGGCCGCGAGTGTCCCTTTCCTTCCTGGCGCTTTCCTGGGTTGCTTCTGGCGCC
ATGGTGTGTGCTGTACTCCTTCTCCGATGCCTGTGAGGAGCCACCAACATTTGAAGCTATGGAGCTC
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GCCTGTTATAGAGAAACATGTCCATATACGGGATCCTTAAATGGCCAAGCAGTCCCTGCAAATGGG
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GATGCAGTAACTTATAGTTGTGATCCTGCACCTGGACCAGATCCATTTTCACTTATTGGAGAGAGCACG
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GATCCCCCAGTTCCAAAGTGTCTTAAAGTGTGCACTTCTTCCACTACAAAATCCTCAGCGTCCAGTGCC
TCAGGATATCCTAAACCTGAGGAAGGAATACTTGACAGTTTGGATGTTGGGTCAATTGCTGTGATTGTT
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AAAGGAAAGCAGATGGTGGAGCTGAATATGCCACTTACCAGACTAAATCAACCACTCCAGCAGAGCAG
AGAGGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_172356

Insert Size: 1113 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_172356.1](#)

RefSeq Size: 3191 bp

RefSeq ORF: 1113 bp

Locus ID: 4179

Cytogenetics: 1q32.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Complement and coagulation cascades

MW: 41.2 kDa

Gene Summary: The protein encoded by this gene is a type I membrane protein and is a regulatory part of the complement system. The encoded protein has cofactor activity for inactivation of complement components C3b and C4b by serum factor I, which protects the host cell from damage by complement. In addition, the encoded protein can act as a receptor for the Edmonston strain of measles virus, human herpesvirus-6, and type IV pili of pathogenic *Neisseria*. Finally, the protein encoded by this gene may be involved in the fusion of the spermatozoa with the oocyte during fertilization. Mutations at this locus have been associated with susceptibility to hemolytic uremic syndrome. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jun 2010]
Transcript Variant: This variant (j) lacks two alternate in-frame exons and an exon containing the stop codon compared to variant a. The resulting isoform (10) is shorter and has a distinct C-terminus compared to isoform 1.