

Product datasheet for **SC313213**

CD46 (NM_172351) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD46 (NM_172351) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD46
Synonyms:	AHUS2; MCP; MIC10; TLX; TRA2.10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_172351 edited
GGGGATTGTTGCGTCCCATATCTGGACCCAGAAGGGACTTCCCTGCTCGGCTGGCTCTCG
GTTTCTCTGCTTTCCTCCGGAGAAATAACAGCGTCTTCCGCGCCGCGCATGGAGCCTCCC
GGCCGCCGCGAGTGTCCCTTTCCTTCTGGCGCTTTCCTGGGTTGCTTCTGGCGGCATG
GTGTTGCTGCTGTACTCCTTCTCCGATGCCTGTGAGGAGCCACCAACATTTGAAGCTATG
GAGCTCATTGGTAAACAAAACCCTACTATGAGATTGGTGAACGAGTAGATTATAAGTGT
AAAAAAGGATACTTCTATATACCTCCTTGGCCACCCATACTATTTGTGATCGGAATCAT
ACATGGCTACCTGTCTCAGATGACGCCTGTTATAGAGAAACATGTCCATATACGGGAT
CCTTTAAATGGCCAAGCAGTCCCTGCAATGGGACTTACGAGTTGGTTATCAGATGCAC
TTTATTTGTAATGAGGGTATTACTTAATTGGTGAAGAAATCTATATTGGAACCTAAA
GGATCAGTAGCAATTTGGAGCGTAAGCCCCCAATATGTGAAAAGTTTTGTGTACACCA
CCTCCAAAATAAAAAATGGAAAACACACCTTTAGTGAAGTAGAAGTATTTGAGTATCTT
GATGCACTAAGTATAGTTGTGATCCTGCACCTGGACCAGATCCATTTTCACTTATTGGA
GAGAGCACGATTTATTGGTGAACAATTCAGTGTGGAGTCGTGCTGCCAGAGTGATAAA
GTGGTCAAATGTCGATTTCCAGTAGTCGAAAATGGAAAACAGATATCAGGATTTGGAAAA
AAATTTTACTACAAAGCAACAGTTATGTTTGAATGCGATAAGGGTTTTTACCTCGATGGC
AGCGACACAATGTCTGTGACAGTAACAGTACTTGGGATCCCCAGTCCAAAGTGTCTT
AAAGTGTGACTTCTTCCACTACAAAATCTCCAGCGTCCAGTGCCTCAGGTCCTAGGCCCT
ACTTACAAGCCTCCAGTCTCAAATTCAGGATATCCTAAACCTGAGGAAGGAATACTT
GACAGTTTGGATGTTGGGTCATTGCTGTGATTGTTATTGCCATAGTTGTTGGAGTTGCA
GTAATTTGTGTTGCCGTACAGATATCTTCAAAGGAGGAAGAAGAAAAGGCACATACCTA
ACTGATGAGACCCACAGAGAAGTAAAATTTACTTCTCTGAGAAGGAGAGATGAGAGAA
AGGTTTGTCTTTATCATTAAAAGGAAAGCAGATGGTGGAGCTGAATATGCCACTTACCAG
ACTAAATCAACCACTCCAGCAGAGCAGAGAGGCTGAATAGATTCCACAACCTGGTTTGGC
AGTTCATCTTTGACTCTATTAATCTTCAATAGTTGTTATTCTGTAGTTTCACTCTCA
TGAGTGCAACTGTGGCTTAGCTAATATTGCAATGTGGCTTGAATGTAGGTAGCATCCTTT
GATGCTTCTTTGAACTGTATGAATTTGGGTATGAACAGATTGCCTGCTTCCCTTAAA



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TAACTTAGATTTATTGGACCAGTCAGCACAGCATGCCTGGTTGTATTAAGCAGGGAT
 ATGCTGTATTTTATAAAATTGGCAAAATTAGAGAAATATAGTTTCAATGAAATATATT
 TTCTTTGTAAAGAAAGTGGCTTGAATCTTTTTGTTCAAAGATTAATGCCAACTCTTAA
 GATTATCTTTCACCAACTATAGAATGTATTTTATATATCGTTTATTGAAAAAGCCCTT
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 ATAGGGTAAATCTCTATTTTTGTAAATGTGTTGCGTGATTTTCAGAAAGCTAGAAAGTGT
 ATGTGTGGCATTGTTTCACTTTTTAAAACATCCCTAACTGATCGAATATATCAGTAAT
 TTCAGAATCAGATGCATCCTTTTATAAAGAGTGAGAGGACTCTGACAGCCATAACAGGAG
 TGCCACTTCATGGTGCAGAGTGAACACTGTAGTCTTGTGTTTTCCCAAAGAGAAGCTCCG
 TATGTTCTCTTAGGTTGAGTAACCCACTCTGAATCTGGTTACATGTGTTTTCTCTCC
 TCCTTAAATAAGAGAGGGGTTAAACATGCCCTCTAAAAGTAGGTGTTTTGAAGAGAAT
 AAATTCATCAGATAACCTCAAGTCACATGAGAATCTTAGTCCATTACATTGCCTTGGCT
 AGTAAAAGCCATCTATGTATATGTCTTACCTCATCTCCTAAAAGGCAGAGTACAAAGTAA
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 CCTTTGTAGTCTCTGGCAAGATGCTTTAGGAAGATAAAAGTTTGAGGAGAACAACAGGA
 ATTCTGAATTAAGCACAGAGTTGAAGTTTATACCCGTTTACATGCTTTTCAAGAATGTC
 GCAATTAAGAACAGATAAATGGTGTTTTTAGAAACCTAATTGAAGTATATTTCAACC
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 ACATTTGATTTTTCAAATTTAATATTTATATTAGAGATCTATATATGTATAAATATGTA
 TTTTGTCAAATTTGTTACTTAAATATATAGAGACCAGTTTTCTCTGGAAGTTTGTAA
 TGACAGAAGCGTATATGAATTAAGAAAATTAAGCTGCAAAAATGATTTGCTATAAAA
 TGAGAAGTCTCACTGATAGAGGTTCTTTATTGCTCATTTTTTAAAAAATGGACTCTTGAA
 ATCTGTTAAAATAAAATTTGTACATTTGGAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_172351 unedited
 CATCAATTTGTATACGACNACTATAGGCGCGCGACTTCGCGCACGAGGGGATTGTTGCG
 TCCCATATCTGGACCCAGAAGGACTTCCCTGCTCGGCTGGCTCTCGGTTTCTCTGCTTTC
 CTCCGGAGAAATAACAGCGTCTTCCGCGCCGCGCATGGAGCCTCCCGGCCCGCGAGTG
 TCCCTTCTCTGCGCTTCTGCGGTTGCTTCTGCGGCCATGGTGTGCTGCTGTA
 CTCCTTCTCCGATGCCTGTGAGGAGCCACCAACATTTGAAGCTATGGAGCTCATTGGTAA
 ACCAAAACCTACTATGAGATTGGTGAACGAGTAGATTATAAGTGTAAAAAGGATACTT
 CTATATACCTCCTTGGCACCCATACTATTTGTGATCGGAATCATACTGGCTACCTGT
 CTCAGATGACGCCTGTTATAGAGAAACATGTCCATATATACGGGATCCTTTAAATGGCCA
 AGCAGTCCCTGCAAAATGGGACTTACGAGTTTGGTTATCAGATGCATTTATTTGTAATGA
 GGGTTATTACTTAATTTGGTGAAGAAATCTATATTGTGAATTAAGGATCAGTAGCAAT
 TTGGAGCGGTAAGCCCCAATATGTGAAAAGTTCTGTGTACACCACCTCCAAAAATAAA
 AAATGGAAAACACACCTTTAGTGAAGTAGAAGTATTTGAGTATCTTGATGCAGTAACTTA
 TAGTTGGTGATCCTGCACCTGGACCAGATCCATTTTCACTTATTGGAGAGACGAGTTT
 ATTGGTGGTGACAATTCAGTGTGGGAGTCGTGCTGCCANAGTGAAGTGGTCAATGT
 CGATCTCCAGTAGTCGATAATGGAAACAGATATCAGGATTGGNAAAAAATCTACTACAA
 GCANAGCTATGTTTGTGCGATAAAGGTTTTACCTCGATGCAGCGACCATTGTCGTGAA
 GTACAGACTGGGATCCCCAGTCAAGTGNTC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_172351 unedited AGNANAGCACTGGGGNAGGGTCACAGGGATGCCACTTGGCTCTGTTCAGGAAAAGCTATG ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCCAAATGTACAATT TTATTTTAAACAGATTTCAAGAGTCCATTTTTTAAAAATGAGCAATAAAGAACCTCTATC AGTGATACTTCTCATTTTATAGCAAATACATTTGGCAGCTTAAATTTTCTTTTTTTCAT ATACGCTTCTGTCATTTAAACAACTTCCAGAGAAAACCTGGTCTCTATCCCTTTAAGTAA CAAAATTTGACAAAATACATATTTATACATATATAGATCTCTAATATAAATATTAATTTG AAAAAATTCAAATGTGAAGCAGAACTGCTATACAAGTATATTGTATAATATTTATTTTA TACATTAAGTATTTGGTTGAATATACTTCAATTAGGTTTCTAAAAAACACCATTATCTG CTTCTTAGTAATTGCGACATTCTTGAAAAGCATGTGAAACGGGTATAAACTTCAACTCTG TGCTTAATTCAGAATTCCTGTTTGTCTCCTCAAACCTTTATCTTCTAAAGCATCTTGC CCGAGACTACAAAGGAAAGGAACATTTCCGAGCACTATAAACATGTCCTTTGGACAGTA AAACAGTATTTATCTTCTACACTCTTGATTTCCCAATCATATCTTCTCAAGGCAATGT TTCCTTGGCCCACTTTGGGCACCTAACCATAAAATTTCAAACACACTTTTACACAGGG AAATAAAATGCGGGGGCACCCCTGTTTTTCCCTCGGGGCTTCTTAAAAAAAATCTGTG CTTAAGGACTCAATAAAGTTGAATCTCCCTGA
Restriction Sites:	NotI-NotI
ACCN:	NM_172351
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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_172351.1 , NP_758861.1
RefSeq Size:	3326 bp
RefSeq ORF:	1134 bp
Locus ID:	4179
UniProt ID:	P15529
Cytogenetics:	1q32.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Complement and coagulation cascades

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 (c) lacks an alternate in-frame exon compared to variant a, resulting in a shorter isoform (3) compared to isoform 1.