

Product datasheet for **SC124798**

CD46 (NM_172360) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD46 (NM_172360) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD46
Synonyms:	AHUS2; MCP; MGC26544; MIC10; TLX; TRA2.10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_172360, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCCTCCCGCCGCGCGAGTGTCCCTTTCCTTCTGCGCTTTCCTGGGTTGCTTCTGGCGCCA  
TGGTGTGCTGCTGTA CTTCTCCGATGCCTGTGAGGAGCCACCAACATTTGAAGCTATGGAGCTCAT  
TGGTAAACAAAACCTACTATGAGATTGGTGAACGAGTAGATTATAAGTGTA AAAAAGGATACTTCTAT  
ATACCTCCTCTTGCCACCCATACTATTTGTGATCGGAATCATA CATGGCTACCTGTCTCAGATGACGCCT  
GTTATAGAGAAACATGTCCATATACGGGATCCTTTAAATGGCCAAGCAGTCCCTGCAATGGGACTTA  
CGAGTTTGGTTATCAGATGCACTTTATTTGTAATGAGGGTTATTACTTAATTGGTGAAGAAATTCTATAT  
TGTGAAC TAAAGGATCAGTAGCAATTTGGAGCGGTAAGCCCCAATATGTGAAAAGTTTTGTGTACAC  
CACCTCCAAAAATAAAAATGGA AACACACCTTTAGTGAAGTAGAAGTATTTGAGTATCTTGATGCAGT  
AACTTATAGTTGTGATCCTGCACCTGGACCAGATCCATTTTCACTTATTGGAGAGAGCAGATTTATTGT  
GGTGA CAATTCAGTGTGGAGTCGTGCTGCTCCAGAGTGTAAAGTGGTCAAATGTCGATTTCCAGTAGTCG  
AAAATGGAAAACAGATATCAGGATTTGGAAAAAATTTTACTACAAAGCAACAGTTATGTTTGAATGCGA  
TAAGGGTTTTTACCTCGATGGCAGCGACACAATTGCTGTGACAGTAACAGTACTTGGGATCCCCAGTT  
CCAAAGTGTCTTAAAGTGTGCTCCATCTAGTACAAAACCTCCAGCTTTGAGTCATTGAGTGTGCACTT  
CTTCCACTACAAAATCTCCAGCGTCCAGTGCCTCAGGATATCCTAAACCTGAGGAAGGAATACTTGACAG  
TTTGGATGTTTGGGTCATTGCTGTGATTGTTATTGCCATAGTTGTTGGAGTTGCAGTAATTTGTGTTGTC  
CCGTACAGATATCTTCAAAGGAGGAAGAAGAAAGGAAAGCAGATGGTGGAGCTGAATATGCCACTTACC  
AGACTAAATCAACCACTCCAGCAGAGCAGAGAGGCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_172360 unedited TCGGCACCAGGGATTGTTGCGTCCCATATCTGGACCCAGAAGGGACTTCCCTGCTCGGCT GGCTCTCGGTTTCTCTGCTTTCTCCGGAGAAATAACAGCGTCTTCCGCGCCGCGCATGG AGCCTCCCGGCCCGCGAGTGTCCCTTCTCCTGGCGCTTCTGGGTTGCTTCTGG CGGCCATGGTGTGCTGCTGTACTCCTTCTCCGATGCCTGTGAGGAGCCACCAACATTTG AAGCTATGGAGCTCATTGGTAAACCAAAACCCTACTATGAGATTGGTGAACGAGTAGATT ATAAGTGTA AAAAAGGATACTTCTATATACCTCCTTGGCACCACATACTATTTGTGATC GGAATCATACATGGCTACCTGTCTCAGATGACGCCTGTTATAGAGAAACATGTCCATATA TACGGGATCCTTTAAATGGCCAAGCAGTCCCTGCAAATGGGACTTACGAGTTTGGTTATC AGATGCACTTTATTTGTAATGAGGGTTACTTAAATTGGTGAAGAAATCTATATTGTG AACTTAAAGGATCAGTAGCAATTTGGAGCGGTAAGCCCCAATATGTGAAAAGGTTTTGT GTACACCACCTCCAAAAATAAAAAATGAAAAACACACCTTTAGTGAAGTAGAAGTATTTG AGTATCTTGATGCAGTAACTTATAGTTGTGATCCTGCACCTGGACCAGATCCATTTTCAC TTATTGGAGAGACGATNTATTGTGGGTGACATTCAGTGTGGAGTCGTGCTGCTCCAC GAGTGTAAGTGG
Restriction Sites:	NotI-NotI
ACCN:	NM_172360
Insert Size:	3400 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).
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_172360.1 , NP_758870.1
RefSeq Size:	3236 bp
RefSeq ORF:	1158 bp
Locus ID:	4179
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 (h) lacks an alternate in-frame exon and an exon containing the stop codon as compared to variant a. The resulting isoform (8) is shorter and has a distinct C-terminus compared to isoform 1.