

Product datasheet for **SC124792**

CD46 (NM_172361) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD46 (NM_172361) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD46
Synonyms:	AHUS2; MCP; MIC10; TLX; TRA2.10
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_172361, the custom clone sequence may differ by one or more nucleotides

ATGGAGCCTCCCGCCGCCGCGAGTGTCCCTTTCCTTCTGGCGCTTTCCTGGGTTGCTTCTGGCGGCCA
TGGTGTGCTGCTGTACTCCTTCTCCGATGCCTGTGAGGAGCCACCAACATTTGAAGCTATGGAGCTCAT
TGGTAAACAAAACCTACTATGAGATTGGTGAACGAGTAGATTATAAGTGTAAAAAGGATACTTCTAT
ATACCTCCTCTTGCCACCCATACTATTTGTGATCGGAATCATACATGGCTACCTGTCTCAGATGACGCCT
GTTATAGAGAAACATGTCCATATATACGGGATCCTTTAAATGGCCAAGCAGTCCCTGCAATGGGACTTA
CGAGTTTGGTTATCAGATGCACCTTTATTTGTAATGAGGGTTATTACTTAATTGGTGAAGAAATCTATAT
TGTGAACCTAAAGGATCAGTAGCAATTTGGAGCGGTAAGCCCCCAATATGTGAAAAGGTTTTGTGTACAC
CACCTCCAAAAATAAAAATGGAAAACACACCTTTAGTGAAGTAGAAGTATTTGAGTATCTTGATGCAGT
AACTTATAGTTGTGATCCTGCACCTGGACCAGATCCATTTTCACTTATTGGAGAGACGACGATTTATTGT
GGTGACAATTCAGTGTGGAGTCGTGCTCCAGAGTGTAAAGTGGTCAAATGTCGATTTCCAGTAGTCG
AAAATGGAAAACAGATATCAGGATTTGGAAAAAATTTTACTACAAAGCAACAGTTATGTTTGAATGCGA
TAAGGGTTTTACCTCGATGGCAGCGACACAATTGTCTGTGACAGTAACAGTACTTGGGATCCCCAGTT
CCAAAGTGTCTTAAAGGATATCCTAAACCTGAGGAAGGAATACTTGACAGTTTGGATGTTTGGGTCATTG
CTGTGATTGTTATTGCCATAGTTGTTGGAGTTGCAGTAATTTGTGTTGCCGTACAGATATCTTCAAAG
GAGGAAGAAGAAAGGAAAGCAGATGGTGGAGCTGAATATGCCACTTACCAGACTAAATCAACCACTCCA
GCAGAGCAGAGAGGCTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_172361 unedited
 ATTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTGGATGCTTTGT
 GAGTTGGGGATTGTTGCGTCCCATATCTGGACCCAGAAGGAGCTTCCCTGCTCGGCTGGC
 TCTCGGTTTCTGCTTTCTCCGGAGAAATAACAGCGTCTTCCGCGCCGCGCATGGAGC
 CTCCCGGCCGCGGAGTGTCCCTTTCTTCTGGCGCTTCTGGGTTGCTTCTGGCGG
 CCATGGTGTGCTGCTGTACTCCTTCTCCGATGCCTGTGAGGAGCCACCAACATTTGAAG
 CTATGGAGCTCATTGGTAAACCAAAACCTACTATGAGATTGGTGAACGAGTAGATTATA
 AGTGTAAGGATACTTCTATATACCTCCTCTTGCCACCCATATACTTTGTGATCGGA
 ATCATACATGGCTACCTGTCTCAGATGACGCTGTTATAGAGAAACATGTCCATATATAC
 GGGATCCTTTAAATGGCCAAGCAGTCCCTGCAATGGGACTTACGAGTTTGGTTATCAGA
 TGCACCTTATTTGTAATGAGGGTATTACTTAATTGGTGAAGAAATTTCTATATTGTGAAC
 TTAAAGGATCAGTAGCAATTTGGAGCGGTAAAGCCCCAATATGTGAAAAGTTTTGTGTA
 CACCACCTCCAAAATAAAAAATGGAACACACCTTTAGTGAAGTAGAAGATTTGAGT
 ATCTTGATGCAGTAACCTATANGTTGTGATCCTGCACCTGGACCAGATCCATTNTCACTT
 ATTGGAGAGAGCAGATTATTGTGGTGACCATTCAGTGTGGGAGTCGTGCTGCTCCAGA
 GTGGTAAGTGGTCAAATGTCGATTTCAGTAGTCGAAAATGGGAAACAGATATCAGGATT
 TGGAAAAATTTACTACAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_172361 unedited
 CGTAAGAGCCATTGGGCGATGGTCAACTTGCCAGGTCACGGGAAGAGCACTGGGGGNAG
 GGGCTCACAGGGCATGCCACCGGGTATCTGTTCAAGAAAACAGCTATGACCGCGGCCGC
 AATCTAGAGTCGAGTTTTTTTTTTTTTTCTTTCCAAATGTACAATTTTATTTTAACAGA
 TTTCAAGAGTCCATTTTTTAAAAATGAGCAATAAAGAACCTCTATCAGTGAGACTTCTC
 ATTTTATAGCAAATACATTTTGCAGCTTAAATTTCTTGAATTCATATACGCTTCTGTC
 ATTTAAACAACTTCCAGAGAAACTGGTCTCTATATTTAAGTAACAAATTTGACAAA
 ATACATATTTATACATATATAGATCTCTAATATAAATATTAATTTGAAAAATCAAATG
 TGAAGCAGAACTGCTATACAAGTATATTGTATAATTTATTTTATACATTAAAGTATT
 TGGTTGAATATACTTCAATTAGGTTTCTAAAAACACCATTATCTGCTTCTTAGTAATTG
 CGACATTTCTTGAAAGCATGTGAAACGGGTATAAACTTCAACTCTGTGCTTAATTCAAAA
 TTCCTGTTTGTCTCCTCAAACTTTTATCTTCTAAAGCATCTTGCCAGAGACTACAAAG
 GAAAGGAACATTTACAGAGCACTATAAACATGTCTTTGGACAGTAAACAGTATTTATTC
 TTCTACACTCTTGATTTTCCAATCATATCTTCTCAAGGCAATGTTTCTTTGGCCCAATT
 TGTGCAACTAAACATAAAATTTCAAAACACAACCTTTAACAGTGTGATATGAAATGCAGT
 GGCAGTCCCTGCTTTTCGCTGCTGGCTTCTTTGAAAGATACTGCTTGGCTANAGGACTC
 AGTANAGGGCTGANATCTGCC

Restriction Sites:

NotI-NotI

ACCN:

NM_172361

Insert Size:

3800 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:	<u>NM_172361.1, NP_758871.1</u>
RefSeq Size:	3177 bp
RefSeq ORF:	3177 bp
Locus ID:	4179
UniProt ID:	<u>P15529</u>
Cytogenetics:	1q32.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Complement and coagulation cascades
Gene Summary:	<p>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 <i>Neisseria</i>. 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]</p> <p>Transcript Variant: This variant (l) lacks an alternate in-frame segment and an exon containing the stop codon as compared to variant a. The resulting isoform (12) is shorter and has a distinct C-terminus compared to isoform 1.</p>