

Product datasheet for **RC222330**

CD46 (NM_172352) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD46 (NM_172352) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD46
Synonyms:	AHUS2; MCP; MIC10; TLX; TRA2.10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222330 representing NM_172352 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCTCCCGCCGCGGAGTGTCCCTTTCCTTCTGGCGCTTTCCTGGGTTGCTTCTGGCGCCA
TGGTGTGCTGCTGACTCCTTCCGATGCCTGTGAGGAGCCACCAACATTTGAAGCTATGGAGCTCAT
TGGTAAACAAAACCTACTATGAGATTGGTGAACGAGTAGATTATAAGTGTAAAAAGGATACTTCTAT
ATACCTCCTCTTGCCACCATACTATTTGTGATCGGAATCATACATGGCTACCTGTCTCAGATGACGCC
GTTATAGAGAAACATGTCCATATATACGGGATCCTTTAAATGGCCAAGCAGTCCCTGCAAATGGGACTTA
CGAGTTTGGTTATCAGATGCACCTTATTTGTAATGAGGGTTATTACTTAATTGGTGAAGAAATCTATAT
TGTGAACTTAAAGGATCAGTAGCAATTTGGAGCGGTAAGCCCCAATATGTGAAAAGTTTTGTGTACAC
CACCTCCAAAAATAAAAAATGAAAAACACACCTTTAGTGAAGTAGAAGTATTTGAGTATCTTGATGCAGT
AACTTATAGTTGTGATCCTGCACCTGGACCAGATCCATTTTCACTTATTGGAGAGAGCAGATTTATTGT
GGTGACAATTCAGTGTGGAGTCGTGCTCCAGAGTGTAAAGTGGTCAAATGTCGATTTCCAGTAGTCG
AAAATGAAAAACAGATATCAGGATTTGAAAAAATTTACTACAAGCAACAGTTATGTTTGAATGCGA
TAAGGGTTTTACCTCGATGGCAGCGACACAATGTCTGTGACAGTAACAGTACTTGGGATCCCCCAGTT
CCAAAGTGTCTTAAAGGCTTAGGCCTACTTACAAGCCTCCAGTCTCAAATATCCAGGATCCTAAAC
CTGAGGAAGGAATACTTGACAGTTTGGATGTTTGGGTCATTGCTGTGATTGTTATTGCCATAGTTGTTGG
AGTTGCAGTAATTTGTGTTGTCCCGTACAGATATCTTCAAAGGAGGAAGAAGAAAGGCACATACCTAACT
GATGAGACCCACAGAGAAGTAAATTTACTTCTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222330 representing NM_172352
Red=Cloning site Green=Tags(s)

MEPPGRRECPFPSWRFPGLLLAAMVLLLYSFSDACEEPTFEAMELIGKPKPYEIGERVDYKCKKGYFY
 IPPLATHHTICDRNHTWLPVSDDACYRETCPIIRDPLNGQAVPANGTYEFGYQMHFICNEGYLIGEEILY
 CELKGSVAIWSGKPPICEKVLCTPPPKIKNGKHTFSEVEVFEYLDAVTYSCDPAPGPDPSLIGESTIYC
 GDNSVWSRAAPECKVVVKCRFPVVENGGKQISGFGKFFYKATVMFECDKGFYLDGSDTIVCDNSTWDPVP
 PKCLKGRPRPTYKPPVSNYPGYKPEEGILDSLVDVWVIAVIVIAIVVGVAVICVVPYRYLQRRKKKGTYLT
 DETHREVKFTSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8054_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172352

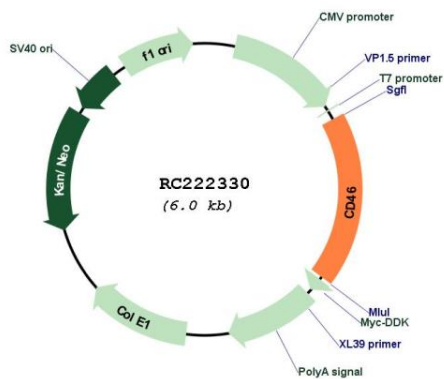
ORF Size: 1086 bp

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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_172352.3
RefSeq Size:	3281 bp
RefSeq ORF:	1089 bp
Locus ID:	4179
UniProt ID:	P15529
Cytogenetics:	1q32.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Complement and coagulation cascades
MW:	37 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]

Product images:



Circular map for RC222330