

## Product datasheet for **RG222383**

### CD46 (NM\_172353) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD46 (NM_172353) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD46
Synonyms:	AHUS2; MCP; MIC10; TLX; TRA2.10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222383 representing NM_172353 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCTCCCGCCGCGGAGTGTCCCTTTCCTTCTGGCGCTTTCCTGGGTTGCTTCTGGCGCCA  
TGGTGTGCTGCTGACTCCTTCCGATGCCTGTGAGGAGCCACCAACATTTGAAGCTATGGAGCTCAT  
TGGTAAACAAAACCTACTATGAGATTGGTGAACGAGTAGATTATAAGTGTAAAAAAGGATACTTCTAT  
ATACCTCCTCTTGCCACCATACTATTTGTGATCGGAATCATACATGGCTACCTGTCTCAGATGACGCC  
GTTATAGAGAAACATGTCCATATACGGGATCCTTTAAATGGCCAAGCAGTCCCTGCAAAATGGACTTA  
CGAGTTTGGTTATCAGATGCACCTTATTTGTAATGAGGGTTATTACTTAATTGGTGAAGAAATCTATAT  
TGTGAACTTAAAGGATCAGTAGCAATTTGGAGCGGTAAGCCCCAATATGTGAAAAGTTTTGTGTACAC  
CACCTCCAAAAATAAAAAATGAAAAACACACCTTTAGTGAAGTAGAAGTATTTGAGTATCTTGATGCAGT  
AACTTATAGTTGTGATCCTGCACCTGGACCAGATCCATTTTCACTTATTGGAGAGAGCAGATTTATTGT  
GGTGACAATTCAGTGTGGAGTCGTGCTCCAGAGTGTAAAGTGGTCAAATGTCGATTTCCAGTAGTCG  
AAAATGAAAAACAGATATCAGGATTTGAAAAAATTTACTACAAGCAACAGTTATGTTTGAATGCGA  
TAAGGGTTTTACCTCGATGGCAGCGACACAATTGTCTGTGACAGTAACAGTACTTGGGATCCCCAGTT  
CCAAAGTGTCTTAAAGGCTTAGGCCTACTTACAAGCCTCCAGTCTCAAATATCCAGGATATCCTAAAC  
CTGAGGAAGGAATACTTGACAGTTTGGATGTTTGGGTCATTGCTGTGATTGTTATTGCCATAGTTGTTGG  
AGTTGCAGTAATTTGTGTTGTCCTGACAGATATCTTCAAAGGAGGAAGAAGAAAGGAAAGCAGATGGT  
GGAGCTGAATATGCCACTTACCAGACTAAATCAACCACTCCAGCAGAGCAGAGAGGC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222383 representing NM\_172353  
Red=Cloning site Green=Tags(s)

MEPPGRRECPFPSPWRFPGLLLAAMVLLLYSFSDACEEPTFEAMELIGKPKPYEIGERVDYKCKKGYFY  
 IPPLATHHTICDRNHTWLPVSDDACYRETCPYIRDPLNGQAVPANGTYEFGYQMHFICNEGYLIGEEILY  
 CELKGSVAIWSGKPPICEKVLCTPPPKIKNGKHTFSEVEVFEYLDAVTYSCDPAPGPDPSLIGESTIYC  
 GDNSVWSRAAPECKVVKCRFPVVENGGKQISGFGKFFYKATVMFECDKGFYLDGSDTIVCDNSNWDPPV  
 PKCLKGRPTYKPPVSNYPGYKPEEGILDSLVDVWVIAVIVIAIVVGVAVICVVPYRYLQRRKKKKGADG  
 GAEYATYQTKSTTPAEQRG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_172353

**ORF Size:** 1107 bp

**OTI Disclaimer:** 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:**

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\\_172353.3](#)

**RefSeq Size:** 3188 bp

**RefSeq ORF:** 1110 bp

**Locus ID:** 4179

**UniProt ID:** [P15529](#)

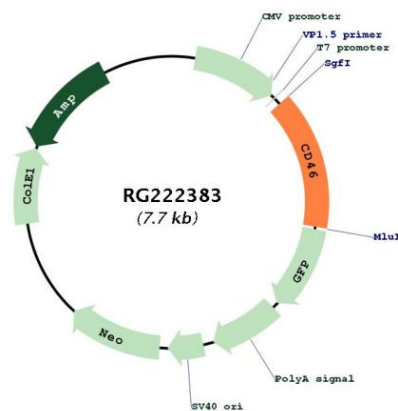
**Cytogenetics:** 1q32.2

**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]

## Product images:



Circular map for RG222383