

Product datasheet for **RG221012**

CD46 (NM_172351) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD46 (NM_172351) 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:	>RG221012 representing NM_172351 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCTCCCGCCGCGCGAGTGTCCCTTTCCTTCTGGCGCTTTCCTGGGTTGCTTCTGGCGCCA
TGGTGTGCTGCTGACTCCTTCCGATGCCTGTGAGGAGCCACCAACATTTGAAGCTATGGAGCTCAT
TGGTAAACCAAACCTACTATGAGATTGGTGAACGAGTAGATTATAAGTGTAAAAAGGATACTTCTAT
ATACCTCCTCTTGCCACCATACTATTTGTGATCGGAATCATACTGGCTACCTGTCTCAGATGACGCC
GTTATAGAGAAACATGTCCATATACGGGATCCTTTAAATGGCCAAGCAGTCCCTGCAAAATGGGACTTA
CGAGTTTGGTTATCAGATGCACCTTATTTGTAATGAGGGTTATTACTTAATTGGTGAAGAAATCTATAT
TGTGAACTTAAAGGATCAGTAGCAATTTGGAGCGGTAAGCCCCAATATGTGAAAAGTTTTGTGTACAC
CACCTCCAAAAATAAAAAATGAAAAACACACCTTTAGTGAAGTAGAAGTATTTGAGTATCTTGATGCAGT
AACTTATAGTTGTGATCCTGCACCTGGACCAGATCCATTTTCACTTATTGGAGAGAGCAGATTTATTGT
GGTGACAATTCAGTGTGGAGTCGTGCTCCAGAGTGTAAAGTGGTCAAATGTCGATTTCCAGTAGTCG
AAAATGAAAAACAGATATCAGGATTTGAAAAAATTTACTACAAGCAACAGTTATGTTTGAATGCGA
TAAGGGTTTTACCTCGATGGCAGCGACACAATTGTCTGTGACAGTAACAGTACTTGGGATCCCCAGTT
CCAAAGTGTCTTAAAGTGTGACTTCTTCCACTACAAAATCTCCAGCGTCCAGTCCCTCAGTCCTAGGC
CTACTTACAAGCCTCCAGTCTCAAATTATCCAGGATATCCTAAAACCTGAGGAAGGAATACTTGACAGTTT
GGATGTTTGGGTCATTGCTGTGATTGTTATTGCCATAGTTGTTGGAGTTGACAGTAATTTGTGTTGCCG
TACAGATATCTTCAAAGGAGGAAGAAGAAAGGCACATACCTAACTGATGAGACCCACAGAGAAGTAAAT
TTACTTCTCTC

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221012 representing NM_172351
 Red=Cloning site Green=Tags(s)

MEPPGRRECPFPSWRFPGLLLAAMVLLLYSFSDACEEPTFEAMELIGKPKPYEIGERVDYKCKKGYFY
 IPPLATHHTICDRNHTLWPVSDDACYRETCPYIRDPLNGQAVPANGTYEFGYQMHFICNEGYLIGEEILY
 CELKGSVAIWSGKPPICEKVLCTPPPKIKNGKHTFSEVEVFEYLDAVTYSCDPAPGPDPSLIGESTIYC
 GDNSVWSRAAPECKVVKCRFPVVENKQISGFGKKFYKATVMFECDKGFYLDGSDTIIVCDNSTWDPPV
 PKCLKVSTSTTKSPASSASGPRPTYKPPVSNYPGYPKPEEGILDSLVDVWVIAVIVIAIVVGVAVICVVP
 YRVLQRRKKKGYLTDETHREVKFTSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172351

ORF Size: 1131 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_172351.3](#)

RefSeq Size: 3326 bp

RefSeq ORF: 1134 bp

Locus ID: 4179

UniProt ID: [P15529](#)

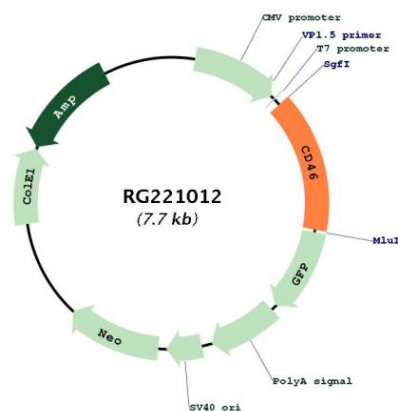
Cytogenetics: 1q32.2

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]

Product images:



Circular map for RG221012