

Product datasheet for **RG222708**

CD46 (NM_172359) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD46 (NM_172359) 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:	>RG222708 representing NM_172359 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCTCCCGCCGCGCGAGTGTCCCTTTCCTTCTGGCGCTTTCCTGGGTTGCTTCTGGCGCCA
TGGTGTGCTGCTGACTCCTTCCGATGCCTGTGAGGAGCCACCAACATTTGAAGCTATGGAGCTCAT
TGGTAAACCAAACCTACTATGAGATTGGTGAACGAGTAGATTATAAGTGTAAAAAGGATACTTCTAT
ATACCTCCTCTTGCCACCATACTATTTGTGATCGGAATCATACTGGCTACCTGTCTCAGATGACGCC
GTTATAGAGAAACATGTCCATATACGGGATCCTTTAAATGGCCAAGCAGTCCCTGCAAAATGGACTTA
CGAGTTTGGTTATCAGATGCACCTTATTTGTAATGAGGGTTATTACTTAATTGGTGAAGAAATCTATAT
TGTGAACTTAAAGGATCAGTAGCAATTTGGAGCGGTAAGCCCCAATATGTGAAAAGTTTTGTGTACAC
CACCTCCAAAAATAAAAAATGAAAAACACACCTTTAGTGAAGTAGAAGTATTTGAGTATCTTGATGCAGT
AACTTATAGTTGTGATCCTGCACCTGGACCAGATCCATTTTCACTTATTGGAGAGAGCAGATTTATTGT
GGTACAATTCAAGTGTGGAGTGTGCTGCTCCAGAGTGTAAAGTGGTCAAATGTCGATTTCCAGTAGTCG
AAAATGAAAAACAGATATCAGGATTTGAAAAAATTTACTACAAGCAACAGTTATGTTTGAATGCGA
TAAGGGTTTTACCTCGATGGCAGCGACACAATTGTCTGTGACAGTAACAGTACTTGGGATCCCCCAGTT
CCAAAGTGTCTTAAAGTGTGCTCCATCTAGTACAAAACCTCCAGCTTTGAGTCACTCAGTGTGACTT
CTTCCACTACAAAATCTCCAGCGTCCAGTGCCTCAGGTCCTAGGCCTACTTACAAGCCTCCAGTCTCAAA
TTATCCAGGATATCCTAAACCTGAGGAAGGAATACTTGACAGTTTGGATGTTTGGGTCATTGCTGTGATT
GTTATTGCCATAGTTGTTGGAGTTGCAGTAATTTGTGTTGCCGTACAGATATCTTCAAAGGAGGAAGA
AGAAAGGAAAGCAGATGGTGGAGCTGAATATGCCACTTACCAGACTAAATCAACCCTCCAGCAGAGCA
GAGAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222708 representing NM_172359
 Red=Cloning site Green=Tags(s)

MEPPGRRECPFPSWRFPGLLLAAMVLLLYSFSDACEEPPTFEAMELIGKPKPYEIGERVDYKCKKGYFY
 IPPLATHHTICDRNHTWLPVSDDACYRETCPYIRDPLNGQAVPANGTYEFGYQMHFICNEGYYLIGEEILY
 CELKGSVAIWSGKPPICEKVLCTPPPKIKNGKHTFSEVEVFEYLDAVTYSCDPAPGPDPSLIGESTIYC
 GDNSVWSRAAPECKVVKCRFPVVENGGKQISGFGKKFYKATVMFECDKGFYLDGSDTIVCDNSNWDPPV
 PKCLKVLPPSSTKPPALSHSVSTSTTKSPASSASGPRPTYKPPVSNYPGYPKPEEGILDSLDDVWVIAVI
 VIAIVVGVAVICVVPYRYLQRRKKKKGADGGAEYATYQTKSTTPAEQRG

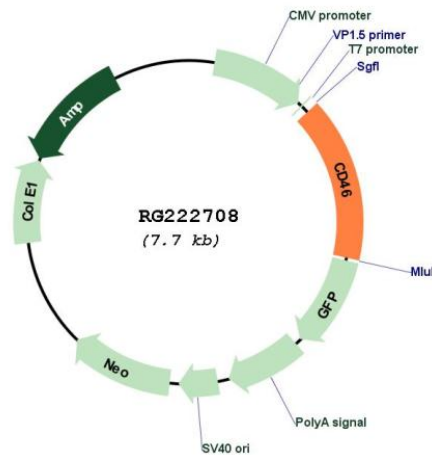
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172359

ORF Size:	1197 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:	<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_172359.3
RefSeq Size:	3278 bp
RefSeq ORF:	1200 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]