

Product datasheet for **RG218181**

CD14 (NM_001040021) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD14 (NM_001040021) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218181 representing NM_001040021 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCGCGCTCCTGCTTGTGCTGCTGCTGCTGCCGCTGGTGCACGTCTCTGCGACCAGCCAGAAC
CTTGTGAGCTGGACGATGAAGATTTCCGCTGCGTCTGCAACTTCTCCGAACCTCAGCCCGACTGGTCCGA
AGCCTTCCAGTGTGTGTCTGCAGTAGAGGTGGAGATCCATGCCGGCGGTCTAACCTAGAGCCGTTTCTA
AAGCGCGTCGATGCGGACGCCGACCCGCGCAGTATGCTGACACGGTCAAGGCTCTCCGCTGCGGCGGC
TCACAGTGGGAGCCGCACAGTTCTGCTCAGCTACTGGTAGGCGCCCTGCGTGTGCTAGCGTACTCCCG
CCTCAAGGAAGTACGCTCGAGGACCTAAAGATAACCGGCACCATGCCTCCGCTGCCTCTGGAAGCCACA
GGACTTGCACTTTCCAGCTTGGCCTACGCAACGTGTCGTGGGCGACAGGGCGTTCTTGGCTCGCCGAGC
TGCAGCAGTGGCTCAAGCCAGGCCTCAAGGTAAGTACTGAGCATTGCCAAGCACACTCGCCTGCTTTTCTG
CGAACAGGTTTCGCGCCTTCCCGCCCTTACCAGCCTAGACCTGTCTGACAATCCTGGACTGGGCGAACGC
GGACTGATGGCGGCTCTCTGTCCCACAAGTCCCGGCCATCCAGAATCTAGCGCTGCGCAACACAGGAA
TGGAGACGCCACAGGCGTGTGCGCCGACTGGCGGCGCAGGTGTGCAGCCCCACAGCCTAGACCTCAG
CCACAACCTGCTGCGCGCCACCCTAAACCCTAGCGCTCCGAGATGCATGTGGTCCAGCGCCCTGAACCTC
CTCAATCTGTCGTTTCGCTGGGCTGGAACAGGTGCCTAAAGGACTGCCAGCCAAGCTCAGAGTGTCTGATC
TCAGCTGCAACAGACTGAACAGGCGCCGACGCTGACGAGCTGCCCGAGGTGGATAACCTGACACTGGA
CGGAATCCCTTCTGTTCCCTGGAAGTCCCTCCCCACGAGGGCTCAATGAACTCCGCGGTGGTCCCA
GCCTGTGCACGTTTCGACCTGTCCGTTGGGGTGTCCGGAACCCTGGTGTCTCCAAGGGGCCCGGGGCT
TTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218181 representing NM_001040021
Red=Cloning site Green=Tags(s)

MERASCLLLLLLPLVHVSATTPEPCELDDDFRCVCFNFSEPQPDWSEAFQCVSAVEVEIHAGGLNLEPFL
 KRVDADADPRQYADTVKALRVRRLLTVGAAQVPAQLLVGALRVLAYSRKELTLEDLKITGTMPPLPLEAT
 GLALSSLRLRNVSWATGRSWLAELQWLKPKLKVLSIAQAHSPAFSCEQVRAFPAALTSLDLSDNPLGER
 GLMAALCPHKFPAIQNLALRNTGMETPTGVCAALAAAGVQPHSLDLSHNSLRATVNPSPAPRCMWSSALNS
 LNL SFAGLEQVPKGLPAKLRVLDLSCNRLNRAPQPEDELPEVDNLTDGNPFLVPGTALPHEGSMNSGVVP
 ACARSTLSVGVSGTLVLLQGARGFA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001040021

ORF Size: 1125 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_001040021.3](#)

RefSeq Size: 1530 bp

RefSeq ORF: 1128 bp

Locus ID: 929

UniProt ID: [P08571](#)

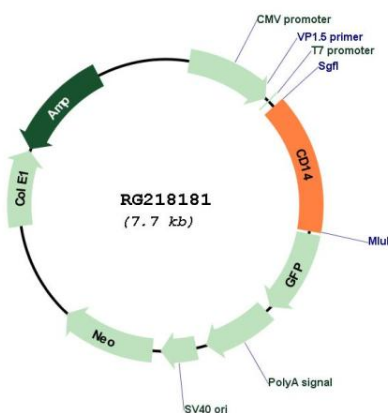
Cytogenetics: 5q31.3

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway

Gene Summary: The protein encoded by this gene is a surface antigen that is preferentially expressed on monocytes/macrophages. It cooperates with other proteins to mediate the innate immune response to bacterial lipopolysaccharide, and to viruses. This gene has been identified as a target candidate in the treatment of SARS-CoV-2-infected patients to potentially lessen or inhibit a severe inflammatory response. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Aug 2020]

Product images:



Circular map for RG218181