

Product datasheet for **RG229963**

CD14 (NM_001174105) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: CD14 (NM_001174105) 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: >RG229963 representing NM_001174105
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCGCGCTCCTGCTTGTGCTGCTGCTGCTGCCGCTGGTGCACGTCTCTGCGACCAGCCAGAAC
 CTTGTGAGCTGGACGATGAAGATTTCCGCTGCGTCTGCAACTTCTCCGAACCTCAGCCCGACTGGTCCGA
 AGCCTTCCAGTGTGTGCTGCAGTAGAGGTGGAGATCCATGCCGGCGGTCTAACCTAGAGCCGTTTCTA
 AAGCGCGTCGATGCGGACGCCGACCCGCGCAGTATGCTGACACGGTCAAGGCTCTCCGCTGCGGCGGC
 TCACAGTGGGAGCCGCACAGTTCTGCTCAGCTACTGGTAGGCGCCCTGCGTGTGCTAGCGTACTCCCG
 CCTCAAGGAAGTACGCTCGAGGACCTAAAGATAACCGGCACCATGCCTCCGCTGCCTCTGGAAGCCACA
 GGACTTGCACTTTCCAGCTTGGCCTACGCAACGTGTCGTGGGCGACAGGGCGTTCTTGGCTCGCCGAGC
 TGCAGCAGTGGCTCAAGCCAGGCCTCAAGGTAAGTACTGAGCATTGCCCAAGCACACTCGCCTGCTTTTCTG
 CGAACAGGTTTCGCGCCTTCCCGCCCTTACCAGCCTAGACCTGTCTGACAATCCTGGACTGGGCGAACGC
 GGACTGATGGCGGCTCTCTGTCCCACAAGTCCCGGCCATCCAGAATCTAGCGCTGCGCAACACAGGAA
 TGGAGACGCCACAGGCGTGTGCGCCGACTGGCGGCGCAGGTGTGCAGCCCCACAGCCTAGACCTCAG
 CCACAACCTGCTGCGCGCCACCCTAAACCCTAGCGCTCCGAGATGCATGTGGTCCAGCGCCCTGAACCTC
 CTAATCTGTCGTTGCTGGGCTGGAACAGGTGCCTAAAGGACTGCCAGCCAAGCTCAGAGTGTCTGATC
 TCAGCTGCAACAGACTGAACAGGCGCCGACGCTGACGAGCTGCCCGAGGTGGATAACCTGACACTGGA
 CGGAATCCCTTCTGTTCCCTGGAAGTCCCTCCCGACGAGGCTCAATGAACTCCGCGGTGGTCCCA
 GCCTGTGCACGTTTCGACCTGTCCGGTGGGGTGTCCGGAACCCTGGTGTCTCCAAGGGGCCCGGGGCT
 TTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229963 representing NM_001174105
Red=Cloning site Green=Tags(s)

MERASCLLLLLLPLVHVSATTPEPCELDEDFRCVCFNFSEPQPDWSEAFQCVSAVEVEIHAGGLNLEPFL
 KRVDADADPRQYADTVKALRVRRLLTVGAAQVPAQLLVGALRVLAYSRKELTLEDLKITGTMPPLEAT
 GLALSSLRNRVSWATGRSWLAELQWLKPKLVLSIAQAHSPAFSCEQVRAFPAALTSLDLSDNPGLGER
 GLMAALCPHKFPAIQNLALRNTGMETPTGVCAALAAAGVQPHSLDLSHNSLRATVNPSPAPRCMWSSALNS
 LNL SFAGLEQVPKGLPAKLRVLDLSCNRLNRAPQFDELPEVDNLTL DGNPFLVPGTALPHEGSMNSGVVP
 ACARSTLSVGVSGTLVLLQGARGFA

TRTRPLE - GFP Tag - V

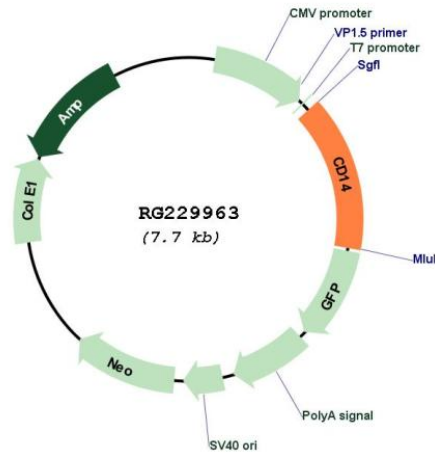
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001174105

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:	<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_001174105.2
RefSeq Size:	1540 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]