

## Product datasheet for **RG229962**

### CD14 (NM\_001174104) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD14 (NM\_001174104) 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:** >RG229962 representing NM\_001174104  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCGCGCTCCTGCTTGTGCTGCTGCTGCTGCCGCTGGTGCACGTCTCTGCGACCAGCCAGAAC  
CTTGTGAGCTGGACGATGAAGATTTCCGCTGCGTCTGCAACTTCTCCGAACCTCAGCCCGACTGGTCCGA  
AGCCTTCCAGTGTGTGCTGTCAGTAGAGGTGGAGATCCATGCCGGCGGTCTAACCTAGAGCCGTTTCTA  
AAGCGCGTCGATGCGGACGCCGACCCGCGCAGTATGCTGACACGGTCAAGGCTCTCCGCTGCGGCGGC  
TCACAGTGGGAGCCGCACAGTTCTGCTCAGCTACTGGTAGGCGCCCTGCGTGTGCTAGCGTACTCCCG  
CCTCAAGGAAGTACGCTCGAGGACCTAAAGATAACCGGCACCATGCCTCCGCTGCCTCTGGAAGCCACA  
GGACTTGCACTTTCCAGCTTGGCCTACGCAACGTGTCGTGGGCGACAGGGCGTTCTTGGCTCGCCGAGC  
TGCAGCAGTGGCTCAAGCCAGGCCTCAAGGTAAGTACTGAGCATTGCCCAAGCACACTCGCCTGCTTTTCTG  
CGAACAGGTTTCGCGCCTTCCCGCCCTTACCAGCCTAGACCTGTCTGACAATCCTGGACTGGGCGAACGC  
GGACTGATGGCGGCTCTCTGTCCCACAAGTTCGCGCCATCCAGAATCTAGCGCTGCGCAACACAGGAA  
TGGAGACGCCACAGGCGTGTGCGCCGACTGGCGGCGGAGGTGTCAGCCCCACAGCCTAGACCTCAG  
CCACAACCTGCTGCGCGCCACCCTAAACCCTAGCGCTCCGAGATGCATGTGGTCCAGCGCCCTGAACCTC  
CTCAATCTGTCGTTGCTGGGCTGGAACAGGTGCCTAAAGGACTGCCAGCCAAGCTCAGAGTGTCTGATC  
TCAGCTGCAACAGACTGAACAGGCGCCGAGCCTGACGAGCTGCCCGAGGTGGATAACCTGACACTGGA  
CGGAATCCCTTCTGTTCCCTGGAAGTCCCTCCCCACGAGGGCTCAATGAACTCCGCGGTGGTCCCA  
GCCTGTGCACGTTTCGACCTGTGCGTGGGGGTGTGCGGAACCCTGGTGTCTCCAAGGGGCCCGGGGCT  
TTGCC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**



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**Protein Sequence:** >RG229962 representing NM\_001174104  
 Red=Cloning site Green=Tags(s)

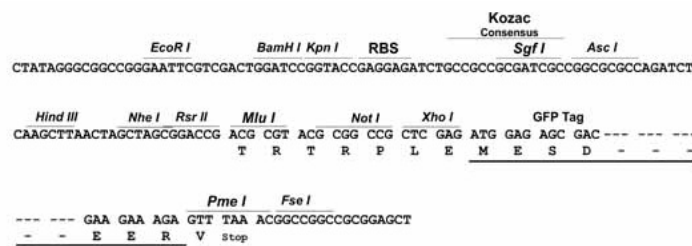
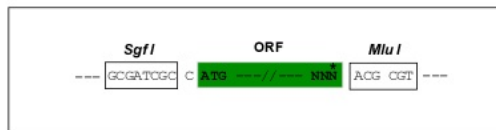
MERASCLLLLLLPLVHVSATTPEPCELDDEDFRCVCFNFSEPQPDWSEAFQCVSAVEVEIHAGGLNLEPFL  
 KRVDADADPRQYADTVKALRVRRLTVGAAQVPAQLLVGALRVLAYSRKELTLEDLKITGTMPLPLEAT  
 GLALSSLRLRNVSWATGRSWLAELQWLKPKLVLSIAQAHSPAFSCEQVRAFPAALTSLDLSDNPGLGER  
 GLMAALCPHKFPAIQNLALRNTGMETPTGVCAALAAAGVQPHSLDLSHNSLRATVNPSPAPRCMSSALNS  
 LNL SFAGLEQVPKGLPAKLRVLDLSCNRLNRPQFDELPEVDNLTL DGNPFLVPGTALPHEGSMNSGVVP  
 ACARSTLSVGVSGTLVLLQGARGFA

TRTRPLE - GFP Tag - V

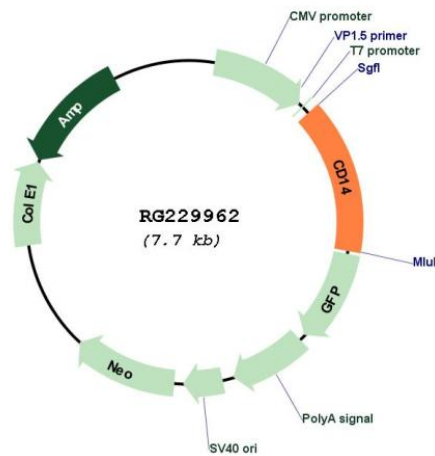
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001174104

<b>ORF Size:</b>	1125 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001174104.1</a> , <a href="#">NP_001167575.1</a>
<b>RefSeq Size:</b>	1661 bp
<b>RefSeq ORF:</b>	1128 bp
<b>Locus ID:</b>	929
<b>UniProt ID:</b>	<a href="#">P08571</a>
<b>Cytogenetics:</b>	5q31.3
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway
<b>Gene Summary:</b>	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]