

Product datasheet for **SC119773**

CD14 (NM_000591) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD14 (NM_000591) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD14
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119773 sequence for NM_000591 edited (data generated by NextGen Sequencing)

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ATGGAGCGCGCTCCTGCTTGTGCTGCTGCTGCTGCCGCTGGTGCACGTCTCTGCGACC
ACGCCAGAACCTTGTGAGCTGGACGATGAAGATTTCCGCTGCGTCTGCAACTTCTCCGAA
CCTCAGCCCGACTGGTCCGAAGCCTTCCAGTGTGTGTCTGCAGTAGAGGTGGAGATCCAT
GCCGGCGGTCTCAACCTAGAGCCGTTTCTAAAGCGCGTCGATGCCGACGCCGACCCGCGG
CAGTATGCTGACACGGTCAAGGCTCTCCGCGTGCGGCGGCTCACAGTGGGAGCCGCACAG
GTTCTGCTCAGCTACTGGTAGGCGCCCTGCGTGTGCTAGCGTACTCCCGCCTCAAGGAA
CTGACGCTCGAGGACCTAAAGATAACCGGCACCATGCCTCCGCTGCCTCTGGAAGCCACA
GGACTTGCACTTCCAGCTTGCCTACGCAACGTGTGCGTGGGCGACAGGGCGTTCTTGG
CTCGCCGAGCTGCAGCAGTGGCTCAAGCCAGGCCCTCAAGTACTGAGCATTGCCCAAGCA
CACTCGCCTGCCTTTTCTGCGAACAGGTTGCGCCTTCCCGGCCCTTACCAGCCTAGAC
CTGTCTGACAATCCTGGACTGGGCGAACGCGGACTGATGGCGGCTCTCTGTCCCCACAAG
TTCCCGGCCATCCAGAATCTAGCGCTGCGCAACACAGGAATGGAGACGCCACAGGCGTG
TGCGCCGCACTGGCGGCGCAGGTGTGCAGCCCCACAGCCTAGACCTCAGCCACAACCTCG
CTGCGCGCCACCGTAAACCCTAGCGCTCCGAGATGCATGTGGTCCAGCGCCCTGAACTCC
CTCAATCTGTCGTTTCGCTGGGCTGGAACAGGTGCCTAAAGGACTGCCAGCCAAGCTCAGA
GTGCTCGATCTCAGCTGCAACAGACTGAACAGGGCGCCGAGCCTGACGAGCTGCCCGAG
GTGGATAACCTGACACTGGACGGGAATCCCTTCTGGTCCCTGGAACCTGCCCTCCCCAC
GAGGGCTCAATGAACTCCGGCGTGGTCCCAGCCTGTGCAGTTCGACCCTGTCGGTGGGG
GTGTCCGGGAACCTTGGTGTGCTCCAAGGGGCCCGGGGCTTTGCCTAA

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Clone variation with respect to NM_000591.3



[View online »](#)

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000591 unedited
CGACTCACTATAGGGCGGCCGGAATTCGGCACCGAGGGAAGAGTTCACAAGTGTGAAGC
CTGGAAGCCGGCGGGTGCCGCTGTGTAGGAAAGAAGCTAAAGCACTTCCAGAGCCTGTCC
GGAGCTCAGAGGTTTCGGAAGACTTATCGACCATGGAGCGCGCTCCTGCTTGTGCTGCT
GCTGCTGCCGCTGGTGCACGCTCTCTGCGACCACGCCAGAACCTTGTGAGCTGGACGATGA
AGATTTCCGCTGCGTCTGCAACTTCTCCGAACCTCAGCCCAGCTGGTCCGAAGCCTTCCA
GTGTGTGCTGCAGTAGAGGTGGAGATCCATGCCGGCGGTCTCAACCTAGAGCCGTTTCT
AAAGCGCGTCGATGCGGACGCCACCCGCGCAGTATGCTGACACGGTCAAGGCTCTCCG
CGTGCGCGCGCTCACAGTGGGAGCCGCACAGTTCTGCTCAGCTACTGGTAGGCCCCCT
GCGTGTGCTAGCGTACTCCCGCTCAAGGAACTGACGCTCGAGGACCTANAGATAACCGG
CACCATGCCTCCGCTGCCTCTGGAAGCCACAGGACTTGCACCTTCCAGCTTGCGCCTACG
CAACGTGTGCGGGGACAGGGCGTTCTTGCTCGCCGAGCTGCAGCAGTGGCTCAAGCC
AGCCCTCAGGTAAGTACTGAGCATTGCCAGCACACTCGCTGCCTTTTCTGCGAACAGTTTC
GCGCCCTTCCCGCCCTTACCAGNCTAGACCTGTCTGACATCCTGGACTGGGCGAAACG
CGGACTGATGGCNGTCTCTGTCCCCACCAGTCCCGGCCATCCAGAATCTAGCGCTGC
GCAACACAGGGATTGAAGACGCCACAGGGTGTCCGCGCACCTGGCCGNGTAAGGTGTG
CACCCCCAAGCCTAACCTCAGCCCAACTGGCTGCCGCCACCGTAAACCTACCGTCGAGA
AGCTGGGCCACCCTAACTCCTAAT
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_000591 unedited
CCGGTNCGAAAAGTCCTCAACGTCTGACGGGACTCCCCTGAACCAAGCAGTTTGTAGTCC
ATTCATTATTCTGTCTTGGATCTTAGGCAAAGCCCCGGGCCCTTGGAGCAGCACCAGGG
TTCCCGACACCCACCACAGGGTCAACGTGCACAGGCTGGGACCAGCCTGATTTTA
TTGAGCCCTCGTGGGGAGGGCAGTTCCAGGGACCAGGAAGGGATTCCCGTCCAGTGTCA
GGTTATCCACCTCGGGCAGCTCGTCAGGCTGCGGCGCCCTGTTTCACTGTTGACAGTGA
GATCGAGCACTCTGAGCTTGGCTGGCAGTCCTTTAGGCACCTGTTCCAGCCCAGCGAACG
ACAGATTGAGGGAGTTCAGGGCGCTGGACCACATGCATCTCGGAGCGCTAGGGTTTACGG
TGGCGCGCAGCGAGTTGTGGCTGAAGTCTAGGCTGTGGGGCTGCACACCTGCCGCCGCA
GTGCGGCGCACACGCTGTGGCGTCTCCATTCTGTGTTGCGCAGCGCTAGATTCTGGA
TGGCCGGAACTTGTGGGACAGAGAGCCGCCATCAGTCCGCGTTCGCCAGTCCAGGAT
TGTCAGACAGGCTAGGCTGGTAAGGGCCGGGAAGGCGCGAACCTGTTTCGAGGATAAGG
CAGGCGAGTGTGCTTGGCAATGCTCAGTACCTTGAGGCCTGGCTTGAGCCACTGCTGCA
GCTCGGGCAGCCAAGAAGCCCTGTGCCACGACACGTTGCGTATGCGCAAGCTGGAAA
GTGCAAGTCTGTGGCTCCANAGCAGCGGAGGCATGGTGCCGGTTATCTTTTAGTCCTC
GAGCGTCAGTTTCTTTGAGCG
```

Restriction Sites:

ECoRI-NOT

ACCN:

NM_000591

Insert Size:

1330 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_000591.1](#), [NP_000582.1](#)

RefSeq Size: 1367 bp

RefSeq ORF: 1128 bp

Locus ID: 929

UniProt ID: [P08571](#)

Cytogenetics: 5q31.3

Domains: LRR

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]

Transcript Variant: This variant (1) represents the predominant transcript. Variants 1-4 encode the same protein.