

Product datasheet for RC203819L1

CD14 (NM_000591) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	CD14 (NM_000591) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	CD14
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203819).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC ATG // NNÑ ACG CGT
	Kozak Consensus
	EcoR I BamH I RBS Sgf I ORF CTATAGGGCGGCGGGGAATTCGTCGACTGGATCCGGTACCGGAGATCTGCCGCCGCGGGAATCGC C ATG
	<u>Mlu I</u> <u>Not I _ Xho I</u> Myc.Tag

 $\frac{1}{1}$

GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCC D L A A N D I L D Y K D D D K V Stop

* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: NM_000591 1125 bp



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

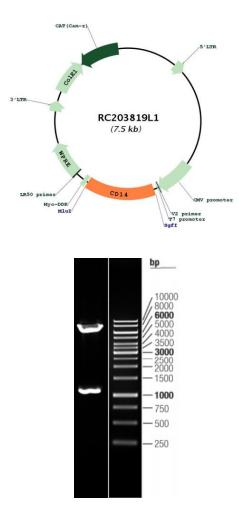
OTI Disclaimer:Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coil are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA and be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> 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 to use. More infoOTI Annotation:This clone was engineered to express the complete ORF with an expression tag. Expression variast is recommended prior to use. More infoOTI Annotation:1. Centrifuge at 5,000xg for Smin. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the ube and incubate for 10 minutes at room temperature. 4. Briefly ortex the tube and incubate for 10 minutes at room temperature. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of thipping when store at -20°C.RefSeqNM 000591.2RefSeq ORF:128 bpLocus ID:929UniProt ID:P08571Cytogenetics:5,31.3Domains:Cayl 3,3Domains:Cayl 3,3Domains:Cayl 3,3Domains:Cayl 3,3Protein Families:	CD14 (NM_000591) Human Tagged Lenti ORF Clone – RC203819L1	
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 infoOTI 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 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 000591.2RefSeq ORF:1128 bpLocus ID:929UniProt ID:P08571Cytogenetics:5 q31.3Domains:LRRProtein Families:Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, TransmembraneProtein Pathways:Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway	OTI Disclaimer:	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 <u>custsupport@origene.com</u> or by
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 000591.2RefSeq Size:1623 bpRefSeq ORF:1128 bpLocus ID:929UniProt ID:P08571Cytogenetics:5q31.3Domains:LRRProtein Families:Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, TransmembraneProtein Pathways:Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway		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
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 000591.2RefSeq ORF:1623 bpLocus ID:929UniProt ID:P08571Cytogenetics:5q31.3Domains:LRRProtein Families:Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, 	OTI Annotation:	
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 000591.2RefSeq Size:1623 bpRefSeq ORF:1128 bpLocus ID:929UniProt ID:P08571Cytogenetics:5q31.3Domains:LRRProtein Families:Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, TransmembraneProtein Pathways:Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway	Components:	
RefSeq Size:1623 bpRefSeq ORF:1128 bpLocus ID:929UniProt ID:P08571Cytogenetics:5q31.3Domains:LRRProtein Families:Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, ransmembraneProtein Pathways:Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathways	Reconstitution Metho	 Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of
RefSeq ORF:1128 bpLocus ID:929UniProt ID:P08571Cytogenetics:5q31.3Domains:LRRProtein Families:Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, TransmembraneProtein Pathways:Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway	RefSeq:	<u>NM 000591.2</u>
Locus ID:929UniProt ID:P08571Cytogenetics:5q31.3Domains:LRRProtein Families:Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, TransmembraneProtein Pathways:Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway	RefSeq Size:	1623 bp
UniProt ID:P08571Cytogenetics:5q31.3Domains:LRRProtein Families:Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, TransmembraneProtein Pathways:Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway	RefSeq ORF:	1128 bp
Cytogenetics:5q31.3Domains:LRRProtein Families:Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, TransmembraneProtein Pathways:Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway	Locus ID:	929
Domains:LRRProtein Families:Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, TransmembraneProtein Pathways:Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway	UniProt ID:	<u>P08571</u>
Protein Families:Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, TransmembraneProtein Pathways:Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway	Cytogenetics:	5q31.3
Protein Pathways:Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway	Domains:	LRR
Regulation of actin cytoskeleton, Toll-like receptor signaling pathway	Protein Families:	
MW: 40.08 kDa	Protein Pathways:	
	MW:	40.08 kDa

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



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 RC203819L1

Double digestion of RC203819L1 using Sgfl and Mlul

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US