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 datasheet for RC208557

CD163 (NM_004244) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD163 (NM_004244) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD163
Synonyms:	M130; MM130; SCARI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208557 representing NM_004244.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCAAACTCAGAATGGTGCTACTTGAAGACTCTGGATCTGCTGACTTCAGAAGACATTTTGTCAAC
TTGAGTCCCTTCACCATTACTGTGGTCTTACTTCTCAGTGCCTGTTTTGTCACCAGTTCTCTTGGAGGA
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GAGGAGTGGGGAACGGTGTGTAATAATGGCTGGAGCATGGAAGCGGTCTCTGTGATTTGTAACCAGCTG
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TTCTCTCTGGAAGCTGCCAGCGTTCTATGCAGGGAATTACAGTGTGGCACAGTTGTCTCTATCCTGGGG
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Protein Sequence:

>Peptide sequence encoded by RC208557
Blue=ORF Red=Cloning site Green=Tag(s)

MSKLRMVLLEDSGSADFRRHFVNLSPFTITVVLLLSACFVTSSLGGTDKELRLVDGENKCSGRVEVKVQ
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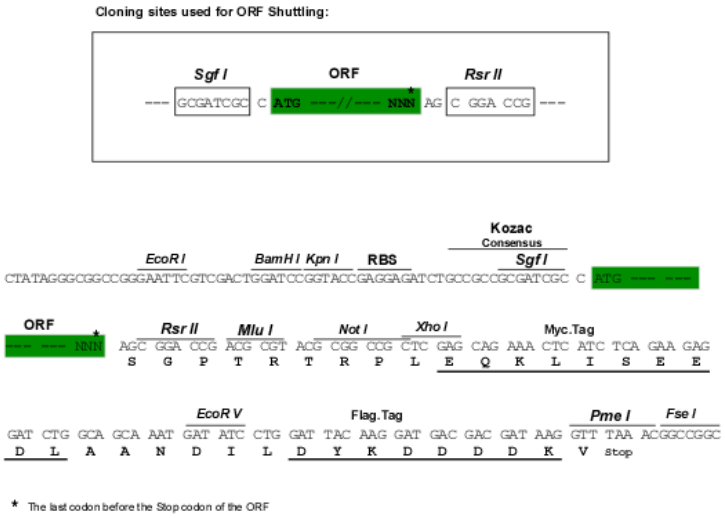
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC208557 also available, TP308557

Chromatograms: https://cdn.origene.com/chromatograms/mk6188_c09.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:

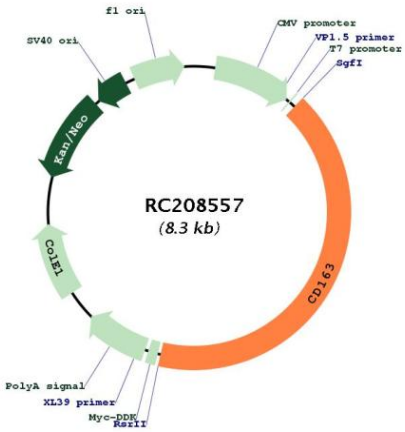


ACCN: NM_004244

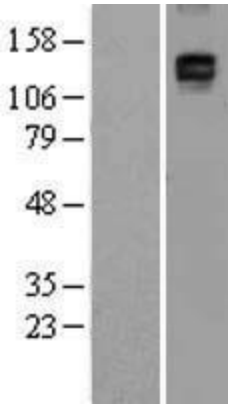
ORF Size: 3468 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004244.4
RefSeq Size:	4190 bp
RefSeq ORF:	3471 bp
Locus ID:	9332
UniProt ID:	Q86VB7
Cytogenetics:	12p13.31
Domains:	SR
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
MW:	125.4 kDa
Gene Summary:	The protein encoded by this gene is a member of the scavenger receptor cysteine-rich (SRCR) superfamily, and is exclusively expressed in monocytes and macrophages. It functions as an acute phase-regulated receptor involved in the clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages, and may thereby protect tissues from free hemoglobin-mediated oxidative damage. This protein may also function as an innate immune sensor for bacteria and inducer of local inflammation. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]

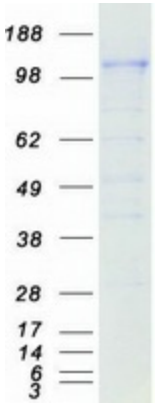
Product images:



Circular map for RC208557



Western blot validation of overexpression lysate (Cat# [LY401362]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208557 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD163 protein (Cat# [TP308557]). The protein was produced from HEK293T cells transfected with CD163 cDNA clone (Cat# RC208557) using MegaTran 2.0 (Cat# [TT210002]).