*h*CD68/SR-D1 VersaClone cDNA

Catalog Number: RDC3350

Specifications:

Gene:	*h*CD68
Accession:	NP_001242.2
Insert size:	1078bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

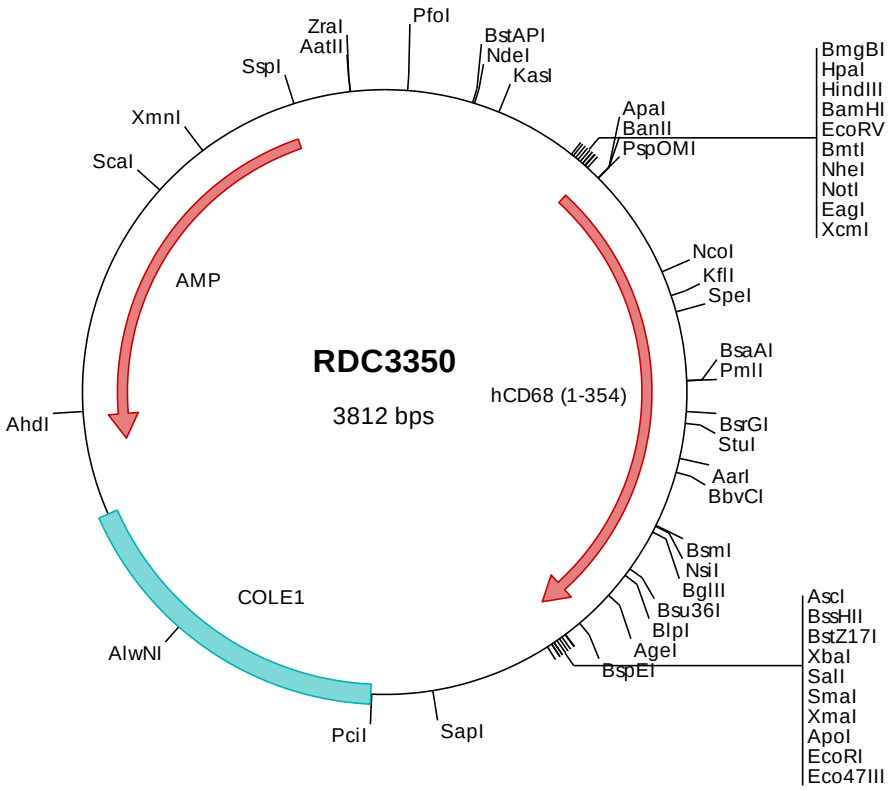
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*CD68/SR-D1 cDNA Plasmid

CD68 CD68 molecule [*Homo sapiens* (human)]

Also known as: GP110; LAMP4; SCARD1

Summary:
CD68 is a transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family. It primarily localizes to lysosomes and endosomes with a smaller fraction circulating to the cell surface. It is a type I integral membrane protein with a heavily glycosylated extracellular domain and binds to tissue- and organ-specific lectins or selectins. CD68 is also a member of the scavenger receptor family. Scavenger receptors typically function to clear cellular debris, promote phagocytosis, and mediate the recruitment and activation of macrophages. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
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> RDC3350 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgaggctgg ctgtgctttt ctcgggggcc ctgctggggc tactggcagc
 501  ccaggggaca gggaatgact gtcctcacaa aaaatcagct actttgctgc catccttcac ggtgacaccc acggttacag agagcactgg aacaaccagc
 601  cacaggacta ccaagagcca caaaaccacc actcacagga caaccaccac aggcaccacc agccacggac ccacgactgc cactcacaac cccaccacca
 701  ccagccatgg aaacgtcaca gttcatccaa caagcaatag cactgccacc agccagggac cctcaactgc cactcacagt cctgccacca ctagtcatgg
 801  aaatgccacg gttcatccaa caagcaacag cactgccacc agcccaggat tcaccagttc tgcccaccca gaaccacctc caccctctcc gagtcctagc
 901  ccaacctcca aggagaccat tggagactac acgtggacca atggttccca gccctgtgtc cacctccaag cccagattca gattcgagtc atgtacacaa
1001  cccagggtgg aggagaggcc tggggcatct ctgtactgaa ccccaacaaa accaaggtcc agggaagctg tgagggtgcc catccccacc tgcttctctc
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1201  cacgcagcac agtggacatt ctcggctcag aatgcatccc ttcgagatct ccaagcaccc ctggggcaga gcttcagttg cagcaactcg agcatcattc
1301  tttcaccagc tgtccacctc gacctgctct cctgaggct ccaggctgct cagctgcccc acacaggggt ctttgggcaa agtttctcct gccccagtga
1401  ccggtccatc ttgctgcctc tcatcatcgg cctgatcctt cttggcctcc tcgccctggt gcttattgct ttctgcatca tccggagacg cccatccgcc
1501  taccaggccc tctaaaggcg cgccagtata ctctagagtc gacacccggg gaattcctcg agcgctcgtc tctagcttgg cgtaatcatg gtcatagctg
1601  tttcctgtgt gaaattgtta tccgctcaca attccacaca acatacgagc cggaagcata aagtgtaaag cctggggtgc ctaatgagtg agctaactca
1701  cattaattgc gttgcgctca ctgcccgctt tccagtcggg aaacctgtcg tgccagctgc attaatgaat cggccaacgc gcggggagag gcggtttgcg
1801  tattgggcgc tcttccgctt cctcgctcac tgactcgctg cgctcggtcg ttcggctgcg gcgagcggta tcagctcact caaaggcggt aatacggtta
1901  tccacagaat caggggataa cgcaggaaag aacatgtgag caaaaggcca gcaaaaggcc aggaaccgta aaaaggccgc gttgctggcg tttttccata
2001  ggctccgccc ccctgacgag catcacaaaa atcgacgctc aagtcagagg tggcgaaacc cgacaggact ataaagatac caggcgtttc cccctggaag
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2301  ttgagtccaa cccggtaaga cacgacttat cgccactggc agcagccact ggtaacagga ttagcagagc gaggtatgta ggcggtgcta cagagttctt
2401  gaagtggtgg cctaactacg gctacactag aaggacagta tttggtatct gcgctctgct gaagccagtt accttcggaa aaagagttgg tagctcttga
2501  tccggcaaac aaaccaccgc tggtagcggt ggtttttttg tttgcaagca gcagattacg cgcagaaaaa aaggatctca agaagatcct ttgatctttt
2601  ctacggggtc tgacgctcag tggaacgaaa actcacgtta agggattttg gtcatgagat tatcaaaaag gatcttcacc tagatccttt taaattaaaa
2701  atgaagtttt aaatcaatct aaagtatata tgagtaaact tggtctgaca gttaccaatg cttaatcagt gaggcaccta tctcagcgat ctgtctattt
2801  cgttcatcca tagttgcctg actccccgtc gtgtagataa ctacgatacg ggagggctta ccatctggcc ccagtgctgc aatgataccg cgagacccac
2901  gctcaccggc tccagattta tcagcaataa accagccagc cggaagggcc gagcgcagaa gtggtcctgc aactttatcc gcctccatcc agtctattaa
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3401  ttaaaagtgc tcatcattgg aaaacgttct tcggggcgaa aactctcaag gatcttaccg ctgttgagat ccagttcgat gtaacccact cgtgcaccca
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3601  ttgaatactc atactcttcc tttttcaata ttattgaagc atttatcagg gttattgtct catgagcgga tacatatttg aatgtattta gaaaaataaa
3701  caaatagggg ttccgcgcac atttccccga aaagtgccac ctgacgtcta agaaaccatt attatcatga cattaaccta taaaaatagg cgtatcacga
3801  ggccctttcg tc
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> RDC3350 Translated Insert Sequence

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 101  sqgpstaths pattshgnat vhptsnstat spgftssahp epppspspsps ptsketigdy twtngsqpcv hlqaqiqirv myttqgggea wgisvlnpnk
 201  tkvqgscega hphlllsfpy ghlsfgfmqd lqqkvvylsy maveynvsfp haaqwtfsaq naslrdlqap lgqsfscsns siilspavhl dllslrlqaa
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```