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 RC210264

SCARB1 (NM_005505) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCARB1 (NM_005505) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SCARB1
Synonyms:	CD36L1; CLA-1; CLA1; HDLQTL6; SR-BI; SRB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210264 representing NM_005505
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCTGCTCCGCCAAAGCGCGCTGGGCTGCCGGGGCGCTGGGCGTCGCGGGGCTACTGTGCGCTGTGC
TGGGCGCTGTCATGATCGTGATGGTGCCGTCGCTCATCAAGCAGCAGGTCCTTAAGAACGTGCGCATCGA
CCCCAGTAGCCTGTCCTTCAACATGTGGAAGGAGATCCCTATCCCCTTCTATCTCTCCGTCTACTTCTTT
GACGTCATGAACCCCAGCGAGATCCTGAAGGGCGAGAAGCCGCAGGTGCGGGAGCGCGGGCCCTACGTGT
ACAGGGAGTTCAGGCACAAAAGCAACATCACCTTCAACAACAACGACACCGTGTCCTTCCTCGAGTACCG
CACCTTCCAGTTCCAGCCCTCCAAGTCCCACGGCTCGGAGAGCGACTACATCGTCATGCCCAACATCCTG
GTCTTGGGTGCGGCGGTGATGATGGAGAATAAGCCCATGACCCTGAAGCTCATCATGACCTTGGCATTCA
CCACCCTCGGCGAACGTGCCTTCATGAACCGCACTGTGGGTGAGATCATGTGGGGCTACAAGGACCCCCT
TGTGAATCTCATCAACAAGTACTTTCCAGGCATGTTCCCCTTCAAGGACAAGTTCGGATTATTTGCTGAG
CTCAACAACTCCGACTCTGGGCTCTTCACGGTGTTCACGGGGGTCCAGAACATCAGCAGGATCCACCTCG
TGGACAAGTGGAACGGGCTGAGCAAGGTTGACTTCTGGCATTCCGATCAGTGCAACATGATCAATGGAAC
TTCTGGGCAAATGTGGCCGCCCTTCATGACTCCTGAGTCCTCGCTGGAGTTCTACAGCCCGGAGGCCTGC
CGATCCATGAAGCTAATGTACAAGGAGTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCGTGGCTC
CCAAAACCCTGTTTGCCAACGGGTCCATCTACCCACCCAACGAAGGCTTCTGCCCGTGCCTGGAGTCTGG
AATTCAGAACGTCAGCACCTGCAGGTTCAGTGCCCCCTTGTTTCTCTCCCATCCTCACTTCCTCAACGCC
GACCCGGTTCTGGCAGAAGCGGTGACTGGCCTGCACCCTAACCAGGAGGCACACTCCTTGTTCCTGGACA
TCCACCCGGTCACGGGAATCCCCATGAACTGCTCTGTGAAACTGCAGCTGAGCCTCTACATGAAATCTGT
CGCAGGCATTGGACAAACTGGGAAGATTGAGCCTGTGGTCCTGCCGCTGCTCTGGTTTGCAGAGAGCGGG
GCCATGGAGGGGGAGACTCTTCACACATTCTACACTCAGCTGGTGTTGATGCCCAAGGTGATGCACTATG
CCCAGTACGTCCTCCTGGCGCTGGGCTGCGTCCTGCTGCTGGTCCCTGTCATCTGCCAAATCCGGAGCCA
AGAGAAATGCTATTTATTTTGGAGTAGTAGTAAAAAGGGCTCAAAGGATAAGGAGGCCATTCAGGCCTAT
TCTGAATCCCTGATGACATCAGCTCCCAAGGGCTCTGTGCTGCAGGAAGCAAAACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210264 representing NM_005505
Red=Cloning site Green=Tags(s)

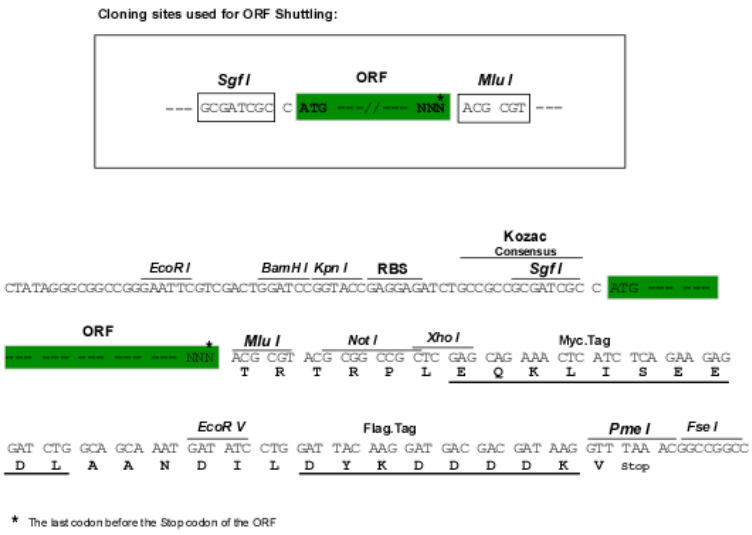
MGCSAKARWAAGALGVAGLLCAVLGAVMIVMVPSLIKQQVLKNVRIDPSSLSFNMWKEIPIPFYLSVYFF
DVMNPSEILKGEKPQVRERGPYVYREFRHKSNITFNNNDTVSFLEYRTFQFQPSKSHGSESDYIVMPNIL
VLGAAVMMENKPMTLKLIMTLAFTTLGERAFMNRTVGEIMWGYKDPLVNLINKYFPGMFPFKDKFGLFAE
LNNSDSGLFTVFTGVQNISRIHLVDKWNGLSKVDFWHSDQCNMINGTSGQMWPPFMTPESSLEFYSPEAC
RSMKLMYKESGVFEGIPTYRFVAPKTLFANGSIYPPNEGFCPCLESGIQNVSTCRFSAPLFLSHPHFLNA
DPVLAEAVTGLHPNQEAHSLFLDIHPVTGIPMNCSVKLQLSLYMKSVAGIGQTGKIEPVVLPLLWFAESG
AMEGETLHTFYTQLVLMPKVMHYAQYVLLALGCVLLLVPVICQIRSQEKCYLFWSSSKKGSKDKEAIQAY
SESLMTSAPKGSVLQEAKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2603_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005505

ORF Size: 1527 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_005505.5

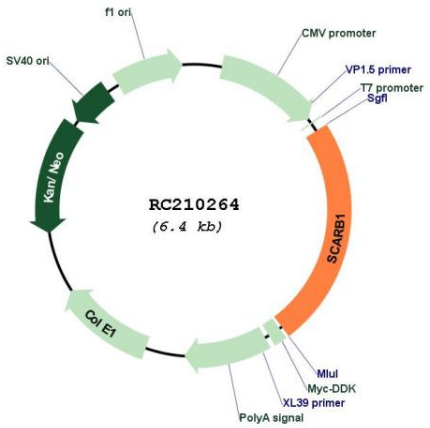
RefSeq Size: 2759 bp

RefSeq ORF: 1530 bp

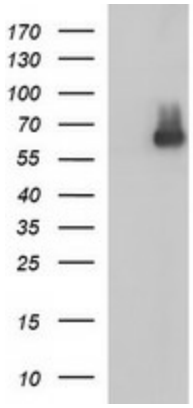
Locus ID: 949

UniProt ID:	Q8WTV0
Cytogenetics:	12q24.31
Domains:	CD36
Protein Families:	Druggable Genome, Transmembrane
MW:	56.8 kDa
Gene Summary:	The protein encoded by this gene is a plasma membrane receptor for high density lipoprotein cholesterol (HDL). The encoded protein mediates cholesterol transfer to and from HDL. In addition, this protein is a receptor for hepatitis C virus glycoprotein E2. Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2019]

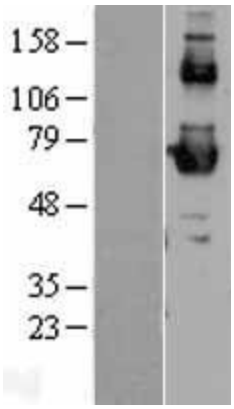
Product images:



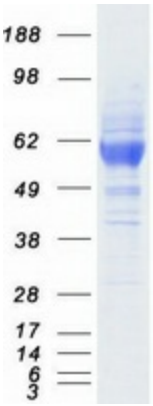
Circular map for RC210264



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SCARB1 (Cat# RC210264, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SCARB1(Cat# [TA507135]). Positive lysates [LY401684] (100ug) and [LC401684] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401684]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210264 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SCARB1 protein (Cat# [TP310264]). The protein was produced from HEK293T cells transfected with SCARB1 cDNA clone (Cat# RC210264) using MegaTran 2.0 (Cat# [TT210002]).