

Product datasheet for **MG208180**

Scarb1 (NM_016741) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scarb1 (NM_016741) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Scarb1
Synonyms:	AI120173; CD36; Cd36l1; Chohd1; Cla-1; Cla1; D5Erttd460e; Hdlq1; Hlb398; mSR-BI; SR-B1; SR-BI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208180 representing NM_016741
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCGGCAGCTCCAGGGCGCGCTGGGTGGCCTTGGGGTTGGGCGCCCTGGGGCTGCTGTTTGCTGCGC
 TCGGCGTTGTGATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATGTCGCATAGA
 CCCGAGCAGCCTGTCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTTGTCTGCTACTTCTTC
 GAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGTAGTCCGGGAGCGTGGACCCTATGCT
 ACAGGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAACGACACCGTGTCTTCGTTGGAGAACC
 CAGCCTCCATTTCCAGCCTGACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTG
 GTCCTGGGGGCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
 TCACCATGGGCCAGCGTCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGATCCCTT
 CGTGCATTTTCTCAACACGTACCTCCAGACATGCTTCCATAAAGGGCAAATTTGGCCTGTTTGTGGG
 ATGAACAACCTCGAATTCGGGGTCTTCACTGTCTTACGGGCGTCCAGAAATTCAGCAGGATCCATCTGG
 TGGACAAATGGAACGGACTCAGCAAGATCGATTATTGGCATTGAGCAGTGAACATGATCAATGGGAC
 TTCCGGGCAGATGGGACCCCTTCATGACACCCGAATCCTCGCTGGAATTCCTCAGCCCGGAGGCATGC
 AGGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTGTAAGGCATCCACGATCGCTTACGGCCC
 CCGATACTCTGTTTGCCAAACGGGTCCGCTACCCACCCAAACGAAGGCTTCTGCCCATGCCGAGAGTCTGG
 CATTGAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCACCCCACTTTTACAACGCC
 GACCCTGTGTTGTGAGAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCATTCTTGTCTCTAGACA
 TCCATCCGGTCACTGGGATCCCCATGAACCTGTTCTGTAAGATGCAGTGCAGCCTACATAAAATCTGT
 CAAGGGCATCGGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTGCAACAGAGCGGA
 GCAATGGGTGGCAAGCCCTGAGCACGTTCTACACGCAGCTGGTCTGATGCCCCAGGTTCTTCACTACG
 CGCAGTATGTGCTGCTGGGGCTTGGAGGCTCCTGTTGCTGGTGGCCATCATCTGCCAACTGCGCAGCCA
 GGAGAAATGCTTTTTGTTTGGAGTGGTAGTAAAAAGGGCTCCAGGATAAGGAGGCCATTAGGCTCTAC
 TCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTCTGCAAGAAGCCAAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208180 representing NM_016741
 Red=Cloning site Green=Tags(s)

MGGSSRARWVALGLGALLLFAALGVVMILMVP SLIKQV LKNVRIDPSSLSFGMWKEIPVPFYLSVYFF
 EVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLHFQPKSHGSESDYIVLPNII
 VLGG SILMESKPVSLKLMMLALVTMQR AFMNR TVGEILWGYDDPFVHFLNTYLPDMLPIKGFGLFVG
 MNNSNSGVFTVFTGVQNF SRIHLV DKWNGLSKIDYWHSEQCNMINGTSGQM WAPFMTPESSLEFFSPEAC
 RSMKLTYNESRVFEGIPTYRFTAPDTL FANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNA
 DPV LSEAVLGLNPNPKEHSLFLDIHPVTGIPMNC SVKMLSLYIKSVKIGIGTKIEPVVLP LLWFEQSG
 AMGGKPLSTFYTLV LMPQV LHYAQYVLLGLG LLLLLVP IICQLRSQEKFLFWSGSKKGSQDKEAIQAY
 SESLMSPAAGKTVLQEAKL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_016741

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.

RefSeq: [NM_016741.2](#)

RefSeq Size: 2512 bp

RefSeq ORF: 1530 bp

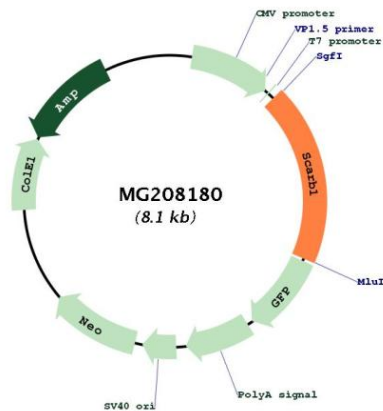
Locus ID: 20778

UniProt ID: [Q61009](#)

Cytogenetics: 5 G1.1

Gene Summary:

Receptor for different ligands such as phospholipids, cholesterol ester, lipoproteins, phosphatidylserine and apoptotic cells (By similarity). Both isoform 1 and isoform 2 act as receptors for HDL, mediating selective uptake of cholesteryl ether and HDL-dependent cholesterol efflux (PubMed:9254074, PubMed:9614139). Also facilitates the flux of free and esterified cholesterol between the cell surface and apoB-containing lipoproteins and modified lipoproteins, although less efficiently than HDL. May be involved in the phagocytosis of apoptotic cells, via its phosphatidylserine binding activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG208180