

## Product datasheet for **MR208180**

### Scarb1 (NM\_016741) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Scarb1 (NM_016741) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scarb1
Synonyms:	A1120173; CD36; Cd36l1; Chohd1; Cla-1; Cla1; D5Erttd460e; Hdlq1; Hlb398; mSR-BI; SR-B1; SR-BI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208180 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCGGCAGCTCCAGGGCGCGTGGGTGGCCTTGGGGTTGGGCGCCCTGGGGCTGCTGTTTGGCTGCGC  
 TCGGCGTTGTGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATGTCGCATAGA  
 CCCGAGCAGCCTGTCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTTGTCTGCTACTTCTTC  
 GAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGTAGTCCGGGAGCGTGGACCCTATGCT  
 ACAGGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAACGACACCGTGTCTTCGTTGGAGAACC  
 CAGCCTCCATTTCCAGCCTGACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTG  
 GTCCTGGGGGCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG  
 TCACCATGGGCCAGCGTCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGATCCCTT  
 CGTGCATTTTCTCAACACGTACCTCCAGACATGCTTCCATAAAGGGCAAATTTGGCCTGTTTGTGGG  
 ATGAACAACCTCGAATTCGGGGTCTTCACTGTCTTACGGGCGTCCAGAAATTCAGCAGGATCCATCTGG  
 TGGACAAATGGAACGGACTCAGCAAGATCGATTATTGGCATTAGAGCAGTGAACATGATCAATGGGAC  
 TTCGGGCGAGATGGGACCCCTTCATGACACCCGAATCCTCGCTGGAATTCCTCAGCCCGGAGGCATGC  
 AGGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTGTAAGGCATCCACGATCGCTTACGGCCC  
 CCGATACTCTGTTTGCCAAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCCGAGAGTCTGG  
 CATTGAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCACCCCACTTTTACAACGCC  
 GACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCATTCTTGTCTCTAGACA  
 TCCATCCGGTCACTGGGATCCCCATGAAGTCTTCTGTAAGATGCAGTGCAGCCTACATCAAATCTGT  
 CAAGGGCATCGGGCAAACAGGGAAGATCGAGCCAGTAGTCTGCCGTTGCTGTGGTTTCAACAGAGCGGA  
 GCAATGGGTGGCAAGCCCTGAGCACGTTCTACACGCAGCTGGTCTGATGCCCCAGGTTCTTCACTACG  
 CGCAGTATGTGCTGCTGGGGCTTGGAGGCTCCTGTTGCTGGTGGCCATCATCTGCCAACTGCGCAGCCA  
 GGAGAAATGCTTTTTGTTTGGAGTGGTAGTAAAAAGGGCTCCAGGATAAGGAGGCCATTCAGGCCTAC  
 TCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTCTGCAAGAAGCCAAGCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208180 protein sequence  
 Red=Cloning site Green=Tags(s)

MGGSSRARWVALGLGALLFAALGVVMILMVP SLIKQQVLKNVRIDPSSL SFGMWKEIPVPFYLSVYFF  
 EVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLHFQPKSHGSESDYIVLPNIL  
 VLGG SILMESKPVSLKLMMLALVTMQR AFMNRVGEILWGYDDPFVHFLNTYLPDMLPIKGFGLFVG  
 MNNSNSGVFTVFTGVQNF SRIHLVDKWNGLSKIDYWHSEQNMINGTSGQM WAPFMTPESSLEFFSPEAC  
 RSMKLTYNESRVFEGIPTYRFTAPDTL FANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNA  
 DPVLS EAVLGLNPNPKEHSLFLDIHPVTGIPMNC SVKMQLSLYIKSVKGIQGTGKIEPVVLP LLWFEQSG  
 AMGGKPLSTFYTLVLM PQVLHYAQYVLLGLG LLLLVP IICQLRSQEKCF LFWSGSKKGSQDKEAIQAY  
 SESLMSPA AKGTVLQEAKL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_016741

**ORF Size:** 1530 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:** 2534 bp

**RefSeq ORF:** 1530 bp

**Locus ID:** 20778

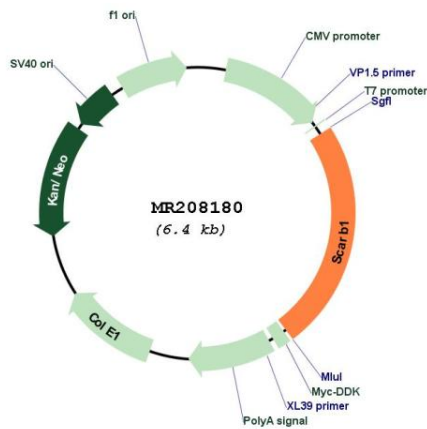
**UniProt ID:** [Q61009](#)

**Cytogenetics:** 5 G1.1

**MW:** 56.8 kDa

**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 MR208180