

Product datasheet for **MR230350**

Scarb1 (NM_001205083) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scarb1 (NM_001205083) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scarb1
Synonyms:	A1120173; CD36; Cd36l1; Chohd1; Cla-1; Cla1; D5Ertd460e; Hdlq1; Hlb398; mSR-BI; SR-B1; SR-BI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230350 representing NM_001205083
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCGGCAGCTCCAGGGCGCGTGGGTGGCCTTGGGGTTGGGCGCCCTGGGGCTGCTGTTTGCTGCGC
 TCGGCGTTGTGATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATGTCGCATAGA
 CCCGAGCAGCCTGTCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTTGTCTGCTACTTCTTC
 GAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGTAGTCCGGGAGCGTGGACCCTATGCT
 ACAGGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAACGACACCGTGTCTTCGTTGGAGAACC
 CAGCCTCCATTTCCAGCCTGACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTG
 GTCCTGGGGGCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
 TCACCATGGGCCAGCGTCTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGATCCCTT
 CGTGCATTTTCTCAACACGTACCTCCAGACATGCTTCCATAAAGGGCAAATTTGGCCTGTTTGTGGG
 ATGAACAACCTCGAATTCGGGGTCTTCACTGTCTTACGGGCGTCCAGAATTTACAGCAGGATCCATCTGG
 TGGACAAATGGAACGGACTCAGCAAGATCGATTATTGGCATTACAGAGCAGTGAACATGATCAATGGGAC
 TTCCGGGCAGATGTGGGCACCCTTCATGACACCCGAATCCTCGCTGGAATTTTACAGCCCGGAGGCATGC
 AGGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTGTAAGGCATTCCCACGTATCGCTTACGGCCC
 CCGATACTCTGTTTGCCAAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCCGAGAGTCTGG
 CATTGAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCACCCCACTTTTACAACGCC
 GACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCATTCTTGTTCCTAGACA
 TCCATCCGGTCACTGGGATCCCCATGAAGTCTTCTGTAAGATGCAGTGCAGCCTACATAAAATCTGTC
 CAAGGGCATCGGGCAAACAGGGAAGATCGAGCCAGTAGTCTGCCGTTGCTGTGGTTCGAACAGAGCGGA
 GCAATGGGTGGCAAGCCCTGAGCACGTTCTACACGCAGCTGGTCTGATGCCCCAGGTTCTTCACTACG
 CGCAGTATGTGCTGCTGGGGCTTGGAGGCTCCTGTTGCTGGTGGCCATCATCTGCCAACTGCGCAGCCA
 GGTAAAGTAGGAGGGGGCGCCACGCCTCGGACTCGGCTCGGGTTTACAGCCGACCTCTGTTTCTGCAGCTA
 GCTCTTGTCTACCTCTCTCTCGCACCTGCAGTAACTTTCTCTACAAGTCTGGAAGGCCAGGACC
 CTCCCAGGTCGGGGCTAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230350 representing NM_001205083
 Red=Cloning site Green=Tags(s)

MGSSRARWVALGLGALLLFAALGVVIMLVPSLIKQVQLKNVRIDPSSLSFGMWKEIPVPFYLSVYFF
 EVVNPNEVLNGQKPVVRERGYPYVYREFRQKVNITFNDNDTVSFVENRSLHFQPKSHGSESDYIVLPNII
 VLGGSILMESKPVSLKLMMLALVTMGQRAFMRNRTVGEILWGYDDPFVHFLNTYLPDMLPIKGFGLFVG
 MNNSNSGVFTVFTGVQNF SRIHLVDKWNL SKIDYWHSEQCNMINGTSGQM WAPFMTPESSLEFFSPEAC
 RSMKLTYNESRVFEGIPTYRFTAPDTL FANGSVYPPNEGF CPCR ESGIQNVSTCRFGAPFLSHPHFYNA
 DPVLSEAVLGLNPNPKEHSLFLDIHPVTGIPMNC SVKMQLSLYIKSVKIGIGTGKIEPVVLP LLWFEQSG
 AMGGKPLSTFYQLV LMPQVLHYAQYVLLGLG LLLLLVP IICQLRSQVSRRGGHASDSARVSADL CFLQL
 ALVLPPLSHPAVTFLYKSWKAQDPPRSGLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

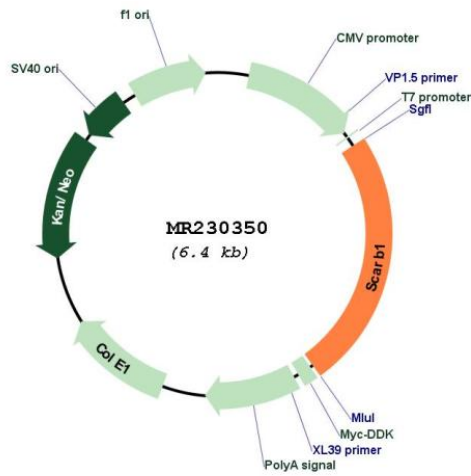
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001205083
ORF Size:	1560 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:	<ol style="list-style-type: none">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_001205083.1 , NP_001192012.1
RefSeq Size:	2196 bp
RefSeq ORF:	1563 bp
Locus ID:	20778
Cytogenetics:	5 G1.1
MW:	58.3 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]