

## Product datasheet for **MR208430**

### Soat2 (NM\_146064) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Soat2 (NM_146064) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Soat2
Synonyms:	ACAT2; D15Wsu97e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208430 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCCAAAGGTGCCAGCTTCGGAGGAGAGAAGGGCTGGGAGAGGAGCAGGAGAAGGGAGCCCGTG  
 GAGGAGAAGGGAACGCAAGGACACACGGAACCCAGACTTGGTGAATGGACTCGACATATGGAGGCTGT  
 GAAGACACAGTTTCTGGAGCAAGCACAGAGAGAGTTGGCAGAGCTGTTGGATCGGGCCCTATGGGAGGCT  
 ATGCAAGCTTACCCCAAACAAGACAGACCTCTCCCTCCGCTGCCCCAGATTCTACAAGCAAGACCCAAAG  
 AGTTACACCTGGAAAACGGAAGTTTTTCATCACCCGCAAGTCACTGATCGATGAGCTAATGGAGGTGCA  
 ACATTTCCGAACCATCTACCACATGTTTCATAGCGGGCCTATGCGTCTGATCATCAGCACCTGGCCATC  
 GACTTCATTGATGAGGGCAGGTTGATGCTGGAGTTTGACTTACTCCTCTCAGCTTCGGACAGCTGCCCT  
 TGGCGCTGATGACCTGGGTTCCCATGTTCTGTCTACGCTCCTAGTGCCCTACCAGACCTGTGGCTGTG  
 GGCCAGGCCGCGCTGGGGTGCCTGGATGCTGGGGCCAGCCTGGGCTGCGTTCTGCTGGCTGCCAC  
 GCTGTGGTGCTCTGCGTCTGCCGGTGCACGTGTCAAGTGGAGCATGAGCTTCCGCCCGCCTCGCGCTGCG  
 TGCTGGTCTTTGAGCAGGTCAGATTGCTGATGAAAAGCTACTCCTTCTGAGAGAGACTGTGCTGGGAT  
 CTTTTGTGTCAGAGGAGGAAAGGGCATCAGCCCCAAGTTTCTCCAGCTACCTCTACTTCTTCTTCTGC  
 CCTACACTTATCTACAGAGAGACATACCCAGGACACCCAGCATCAGGTGGAAGTATGTGGCCAAGAAGT  
 TTGCCAGGTCCTGGGCTGTTTGTCTATGCTGCTTTCCTGGGCCGCTCTGTGTCCCTGTCTTTGC  
 CAACATGAGCCGGAACCTTCAGCACCCGGGCTCTGCTGCTCTCCATCTTGCATGCCACGGGGCCAGGC  
 ATCTTCATGCTGCTCCTCATCTTCTCGCTTCTGCACTGCTGGCTCAACGCCTTCGCCGAGATGCTGC  
 GGTTTGGAGACAGGATGTTCTACCGGGACTGGTGAAGTCACTGCTTCTTCCAAGTACTACCCACCTGC  
 GAACGTCGTGGTCCATGACTGGCTGTACAGCTATGTGTATCAAGATGGGCTGTGGCTCTTAGGCAGGCGG  
 GCTCGCGGGTGGCCATGCTGGGAGTGTCTGCTGCTGCGGTGTTTCATGAGTATATCTTCTGCTTCG  
 TCCTGGGTTCTTCTACCCGGTCACTGCTGATGCTATTCTTGTTCGGGGGGCTGCTGAATTTACCAT  
 GAACGACAGGCACACAGGTCAGCCTGGAACATCCTGATGTGGACCTTTCTTTCATGGGCCAGGGCATC  
 CAGGTCAGCCTATACTGCCAGGAGTGGTATGCTCGTCGACACTGTCCCCTGCCCCAGACAACATTCTGGG  
 GGATGGTGACACCCGCTCTGGTCTGCCATCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208430 protein sequence  
 Red=Cloning site Green=Tags(s)

MQPKVPQLRRREGLGEEQEKGARGGEGNARTHGTPDLVQWTRHMEAVKTQFLEQAQRELAELLDRLWEA  
 MQAYPKQDRPLPSAAPDSTSKTQELHPGKRKVFITRKSLEIDELMEVQHFRTIYHMF IAGLCVLIISTLAI  
 DFIDEGRMLMFDLLLSFGQLPLALMTWVPMFLSTLLVPYQTLWLWARPRAGGAWMLGASLGCVLLAAH  
 AVVLCVLPVHVSVRHELPPASRCVLFVEQVRLMKSYSFLRETVPGIFCVRGGKGISPPSFSSYLFLFC  
 PTLIYRETYRTPSIRWNYVAKNFAQVLGCLLYACFILGRLCVPVFANMSREPFSTRALLLSILHATGPG  
 IFMLLLIFFAFLHCWLNFAEMLRFGDRMFYRDWWNSTSFSNYRTWNVVVDWLYSYVYQDGLWLLGRR  
 ARGVAMLGVFLVSAVVHEYIFCFVLGFFYPVMLMLFLVFGLLNFTMNRHTGPawnILMWTFLFMGQGI  
 QVSLYCQEWYARRHCPLPQTTFWGMVTPRSWSCHP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_146064

**ORF Size:** 1578 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\\_146064.1](#), [NP\\_666176.1](#)

**RefSeq Size:** 2126 bp

**RefSeq ORF:** 1578 bp

**Locus ID:** 223920

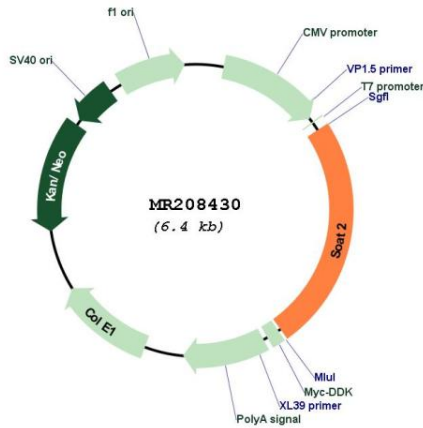
**UniProt ID:** [O88908](#)

**Cytogenetics:** 15 57.33 cM

**MW:** 60.6 kDa

**Gene Summary:** Plays a role in lipoprotein assembly and dietary cholesterol absorption. In addition to its acyltransferase activity, it may act as a ligase. May provide cholesteryl esters for lipoprotein secretion from hepatocytes and intestinal mucosa.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208430