

Product datasheet for **MG208430**

Soat2 (NM_146064) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Soat2 (NM_146064) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Soat2
Synonyms:	ACAT2; D15Wsu97e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208430 representing NM_146064
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGCCAAAGGTGCCAGCTTCGGAGGAGAGAAGGGCTGGGAGAGGAGCAGGAGAAGGGAGCCCGTG
 GAGGAGAAGGGAACGCAAGGACACACGGAACCCAGACTTGGTGAATGGACTCGACATATGGAGGCTGT
 GAAGACACAGTTTCTGGAGCAAGCACAGAGAGAGTTGGCAGAGCTGTTGGATCGGGCCCTATGGGAGGCT
 ATGCAAGCTTACCCAAACAAGACAGACCTCTCCCTCCGCTGCCCCAGATTCTACAAGCAAGACCCAAAG
 AGTTACACCTGGAAAACGAAAGTTTTTCATCACCCGCAAGTCACTGATCGATGAGCTAATGGAGGTGCA
 ACATTTCCGAACCATCTACCACATGTTTCATAGCGGGCCTATGCGTCCTGATCATCAGCACCTGGCCATC
 GACTTCATTGATGAGGGCAGGTTGATGCTGGAGTTTGACTTACTCCTCTCAGCTTCGGACAGCTGCCCT
 TGGCGCTGATGACCTGGGTTCCCATGTTCTGTCTACGCTCCTAGTGCCCTACCAGACCTGTGGCTGTG
 GGCCAGGCCGCGCTGGGGTGCCTGGATGCTGGGGCCAGCCTGGGCTGCGTTCTGCTGGCTGCCAC
 GCTGTGGTGCTCTGCGTCTGCCGGTGCAGTGTCAAGTGAAGCATGAGCTCCGCCCGCCTCGCGCTGCG
 TGCTGGTCTTTGAGCAGGTCAGATTGCTGATGAAAAGCTACTCCTTCTGAGAGAGACTGTGCTGGGAT
 CTTTTGTGTCAGAGGAGGAAAGGGCATCAGCCCCAAGTTTCTCCAGCTACCTCTACTTCTTCTTCTGC
 CCTACACTTATCTACAGAGAGACATACCCAGGACACCCAGCATCAGGTGGAAGTATGTGGCCAAGAAGT
 TTGCCAGGTCCTGGGCTGTTTGTCTATGCTGCTTTCCTGGGCCGCTCTGTGTCCCTGTCTTTGC
 CAACATGAGCCGGAACCTTCAGCACCCGGCTCTGCTGCTCTCCATCTTGCATGCCACGGGGCCAGGC
 ATCTTCATGCTGCTCCTCATCTTCTCGCTTCTGACTGCTGGCTCAACGCTTCGCCGAGATGCTGC
 GGTTTGGAGACAGGATGTTCTACCGGACTGGTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG
 GAACGTCGTGGTCCATGACTGGCTGTACAGCTATGTGTATCAAGATGGGCTGTGGCTCTTAGGCAGGCGG
 GCTCGCGGGTGGCCATGCTGGGAGTGTCTGCTGCTGCGGTGTTTCATGAGTATATCTTCTGCTTCCG
 TCCTGGGTTCTTCTACCCGGTCACTGCTGATGCTATTCTTGTGTTTTCGGGGGGCTGCTGAATTTACCAT
 GAACGACAGGCACACAGGTCCAGCCTGGAACATCCTGATGTGGACCTTTCTTTCATGGGCCAGGGCATC
 CAGGTCAGCCTATACTGCCAGGAGTGGTATGCTCGTCGACTGTCCCCTGCCCCAGACAACATTCTGGG
 GGATGGTGACACCCGCTCTGGTCTGCCATCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208430 representing NM_146064
 Red=Cloning site Green=Tags(s)

MQPKVPQLRRREGLGEEQEKARGGEGNARTHGTPDLVQWTRHMEAVKTQFLEQAQRELAELLDRLWEA
 MQAYPKQDRPLPSAAPDSTSKTQELHPGKRKVFITRKSLEDELMEVQHFRTIYHMFIAGLCVLIISTLAI
 DFIDEGRMLLEFDLLFSFQQLPLALMTWVPMFLSTLLVPYQTLWLWARPRAGGAWMLGASLGCVLLAAH
 AVVLCVLPVHVSVRHELPPASRCVLVFEQVRLLMKSYSFLRETVPGIFCVRGGKISPPSFSSYLFLFC
 PTLIYRETYPRTPSIRWNYVAKNFAQVLGCLLYACFILGRLCVPVFNMSREPFSTRALLLSILHATGPG
 IFMLLLIFFAFLHCWLNFAEMLRFGDRMFYRDWWNSTSFSNYYRTWNVVVDWLYSYVYQDGLWLLGRR
 ARGVAMLVFLVSAVVHEYIFCFVLGFFYPVMLMLFLVFGLLNFTMNRHTGPAWNILMWTFLFMQGI
 QVSLYCQEWYARRHCPLPQTTFWGMVTPRSWSCHP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_146064
ORF Size:	1575 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_146064.1 , NP_666176.1
RefSeq Size:	2126 bp
RefSeq ORF:	1578 bp
Locus ID:	223920
UniProt ID:	O88908
Cytogenetics:	15 57.33 cM
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]