

## Product datasheet for **MG208626**

### Soat1 (NM\_009230) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Soat1 (NM_009230) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Soat1
Synonyms:	8430426K15Rik; Acact; ACAT-1; ald; AW550831; hid
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208626 representing NM\_009230  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCTAAGAAACCGCTGTCAAATCTGGGAGAATCCTGAGCAAGATGAAGCCAGAAAAATTTCA  
 TGGACACATACAGAAATGGTCACATTACCATGAAACAATTGATAGCCAAGAAGAGGCTGTTGGCAGCAGA  
 GGCGGAGGAGCTGAAGCCACTATTTATGAAGGAAGTTGGGTGCCACTTCGATGACTTTGTGACCAACCTC  
 ATTGAAAAGTCCGCATCGCTGGACAATGGTGGGTGCACTCACAACTTCTCCATTCTTGAAGAAATGA  
 AAAAGAACCACAGAGCCAAAGATCTGAGAGCACCTCCAGAACAAGGAAGATTTTTATTTCAAGGCAGTC  
 TCTTTTAGACGAGCTGTTGAAGTGGACCACATCAGAACAATTTACCACATGTTTCATCGCACTCCTCATC  
 CTATTCGTCCTCAGCAGATCGTCGTTGACTACATCGATGAAGGAAGGCTGGTACTTGAGTTCAATCTCC  
 TGGCCTATGCTTTGGCAAATTTCTACTGTTATTTGGACATGGTGGCCATGTTCTGTCTACACTGTC  
 AATCCCCTATTTCTGTTCCAGCGATGGGCCACGGTTACAGCAAGAGTTCTCACCATTGATCTATTCC  
 CTTGTCCATGGCTTGCTCTTCTAGTCTTTCAACTTGGAGTTCTAGGTTTTGTGCCAACATACGTTGTCT  
 TAGCATACACACTGCCACCAGCCTCCCGTTTCATTCTGATACTGGAACAGATTCTGTTGATAATGAAGGC  
 TCACTCATTTGTGAGAGAGAATATCCCAGGACTACTAAATGCAGCCAAGGAGAAATCAAGCAAAGATCCA  
 CTACCCACAGTCAACCAGTACCTGTACTTCTGTTTGGCCTACACTTATTTACCAGACAACACTACCCAA  
 GGACTCCTACTGTAAGATGGGGTTATGTCGCTATGCAGTTTTTACAGGTGTTGGCTGCCTGTTTATGT  
 GTACTACATCTTTGAGAGACTCTGTGCCCCACTATCCGGAATATCAAACAGGAGCCCTCAGTGCCTCGT  
 GTCCCTGGTCTGTGTGTTAACTCCATCTTGCCAGGTGCTTGATACTGTTCCCTTTCGTTCTTTGCTT  
 TTTTGCCTGCTGGCTCAATGCCTTTGCTGAGATGTTACGCTTTGGTGACAGGATGTTTTATAAGGACTG  
 GTGGAACCTCTACATCATACTCCAACACTACTACAGGACCTGGAACGTGGTGGTGACAGACTGGCTCTACTAC  
 TATGTTTACAAAGACCTGCTCTGGTTTTCTCGAAGAGGTTCAAATCTGCCGCCATGCTGGCCGCTTTCG  
 CCCTGTGCGCTGTGGTGCACGAGTATGCCCTCGCCATCTGCCTGAGTTACTTCTACCCGGTGTCTTCTGT  
 GCTCTTCAATGTTCTTTGGAATGGCTTTAACTTCATTGTTAACGACAGTCGGAAAAGGCCAATCTGGAAC  
 ATCATGGTTTGGGCTTCTCTGTTCTGGGCTATGGACTCATTCTGTGCTTTTATTCTCAAGAGTGGTATG  
 CCCGCCAGCACTGCTCTGAAGAACCCTACATTTCTGGATTATGTCCGGCCGGACCTGGACTGTGCG  
 GTACGTGTTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208626 representing NM\_009230  
 Red=Cloning site Green=Tags(s)

MSLRNRLSKSGENPEQDEAQKNFMDTYRNGHITMKQLIAKKRLLAAEAEELKPLFMKEVGFHDDFVTNL  
 IEKSASLDNGGCALTTFSILEEMKKNHRADLRAPPEQKIFISRQSLDELFEVDHIRTIIYHMFIALLI  
 LFLVLSITVVDYIDEGRLVLEFNLLAYAFGKFPVTIWTWAMFLSTLSIPYFLFQRWAHGYSKSSPHLIYS  
 LVHGLLFLVFLGVLGFVPTVYVLLAYTLPPASRFILILEQIRLIMKAHSFVRENIPRVLNAAKEKSSKDP  
 LPTVNQYLYFLFAPTLIYRDNYPRPTVRWGYVAMQFLQVFGCLFYVYIFERLCAPLFRNIKQEPFSAR  
 VLVLVCFNSILPGVLIILFLSFFAFLHWCWNAFAEMLRFGDRMFYKDWNSTSYSNYRTWNVVVDWLYY  
 YVYKDLLWFFSKRFKSAAMLAVFALSAVVHEYALAICLSYFYPVLFVLFMFFGMAFNFIVNSRKRPIWN  
 IMVWASLFLGYLILCFYSQEWYARQHCPKNTFLDYVRPRTWTCRYVF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

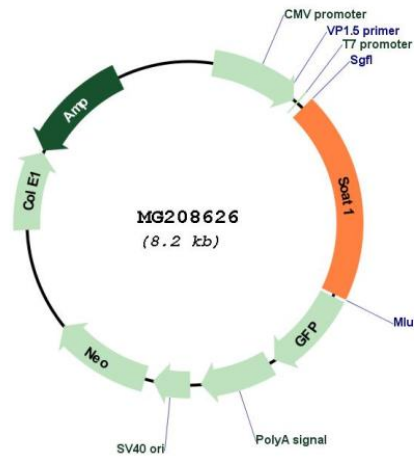
Sgfl-Mlul

## Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



<b>ACCN:</b>	NM_009230
<b>ORF Size:</b>	1620 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009230.3</a> , <a href="#">NP_033256.2</a>
<b>RefSeq Size:</b>	4785 bp
<b>RefSeq ORF:</b>	1623 bp
<b>Locus ID:</b>	20652
<b>UniProt ID:</b>	<a href="#">Q61263</a>
<b>Cytogenetics:</b>	1 67.71 cM
<b>Gene Summary:</b>	Catalyzes the formation of fatty acid-cholesterol esters, which are less soluble in membranes than cholesterol. Plays a role in lipoprotein assembly and dietary cholesterol absorption. [UniProtKB/Swiss-Prot Function]