

## Product datasheet for **RN212950**

### Soat1 (NM\_031118) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Soat1 (NM_031118) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Soat1
Synonyms:	Acat-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN212950 representing NM\_031118  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGGAGAAGAAACGTCTCTGAGAAACCGGCTGTCAAGATCTGCTGAGAATCCTGAGCAAGATGAAG  
 CCCAGAAAAATCTCTTGGACACACACAGAAATGGTCACATTACCATGAAACAGTTGATAGCCAAGAAGAG  
 GCAGTTGGCGGCAGAGGCAGAGGAGCTGAAGCCACTGTTTCTGAAGGAAGTTGGGTGTCACCTTTGATGAC  
 TTTGTGACCAATCTCATTGACAAGTCTGCATCTCTGGACAATGGCGGTGTGCGCTCACGACCTTCTCCA  
 TTCTTGAAGAAATGAAAAACAACCACAGAGCCAAAGATCTGAGAGCACCTCCAGAACAAGGGAAGATATT  
 TATTTCAAGGCGGTCTCTTTAGACGAGCTGTTTGAAGTGGACCACATCAGAACAATTTACCACATGTTT  
 ATTGCCCTCTCATCTTTCATCCTTAGCACGCTCGTGGTGGATTACATCGATGAAGGAAGGCTGGTCC  
 TTGAGTTCAGTCTCCTGGCTTATGCTTTTGGCCAATTTCTATTGTTATTTGGACATGGTGGCCATGTT  
 CCTGTCTACACTGGCAATCCCCTATTTCTGTTCCAGCGTTGGGCCCATGTTACAGCAAGAGTTCCCAC  
 CCACTCATCTATCCCTTATCCATGGCGCATTCTTCTGGTCTTTCAACTTGGAAATCCTCGGTTTTATAC  
 CAACATATGTTGTCTTAGCATACACGCTGCCCCAGCCTCCCGGTTCACTTCTGATACTTGAGCAGATTCCG  
 TTTGGTAAATGAAGGCTCACTCATATGTCAGAGAGAATGTGCCACGAGTTCTAAGTGCAGCCAAGGAGAAA  
 TCGAGCACGGTCCAGTACCCACAGTCAACCAGTACCTGTACTTCTGTTGCTCTACACTTATTTACC  
 GAGACAGTACCCAGGACTCCTACTGTAAGATGGGGTTATGTTGCTATGCAGTTTTTACAGTTTTTGG  
 TTGCCTGTTTTATGTGTACTACATCTTTGAGAGACTCTGTGCCCTCTGTTCCGGAATATCAAACAGGAG  
 CCCTTTAGTGTCTGTCTGCTGGTCTGTGATTTAACTCCATCTTCCAGGTGTGCTGATGCTGTTCC  
 TTTGTTCTTTGCCTTTTTGCACTGCTGGCTCAATGCCCTTGTGAAATGTTACGCTTTGGTGACAGGAT  
 GTTTTATAAGGACTGGTGGAACTTACATCGTACTCCAATACTACAGGACCTGGAATGTGGTGGTCCAC  
 GACTGGCTCTACTACTATGTTTACAAGGACCTCCTCTGTTTTTCTCGAAGAGGTTACAGGCTGCCGCCA  
 TGTTGGCCGTGTTGCGCCTGTCAGCAGTGGTGCACGAGTACGCCCTCGCTGTCTGCCTGAGCTACTTCTA  
 CCCAGTGTCTTCTGCTCTTCTATGTTCTTTGGAATGGCTTTTAACTTCATCGTTAACGACAGTCGGAAA  
 AGGCCAGTCTGGAACATCATGGTTCGGGCTTCCCTTCTCCTCGGCCATGGAGTATTCTGTGCTTTTACT  
 CTCAAGAGTGGTATGCTCGACAGCGCTGCCTCTGAAGAACCCTACATTTCTGGATTATGTCGGCCACG  
 GACCTGGACTTGTGCTTACGTGTTTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_031118

**Insert Size:** 1638 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_031118.1](#), [NP\\_112380.1](#)

**RefSeq Size:** 1750 bp

**RefSeq ORF:** 1638 bp

**Locus ID:** 81782

**UniProt ID:** [O70536](#)

**Cytogenetics:** 13q22

**Gene Summary:** catalyzes the conversion of free cholesterol and fatty acyl-CoA to cholesteryl esters; plays a role in cholesterol metabolism [RGD, Feb 2006]