

Product datasheet for **RN207391**

Soat2 (NM_153728) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Soat2 (NM_153728) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Soat2
Synonyms:	Acat-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN207391 representing NM_153728
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCCAAAGCGCCCCAGCTGCGGAGGAGAGAAAAGGCAGGGAGAGGAGCAGGAGAACGGAGCCTGTG
GAGAAGGGAAACACAAGGACGCACAGAGCCCAGACCTGGTACAATGGACCCGACATATGGAGGCTGTGAA
GACACAGTGTCTGGAGCAAGCACAGAGAGAGTTGGCAGAGCTGATGGATCGGGCCATATGGGAAGCTGTG
CAAGCCTACCCAAAACAAGACAGACCTCTTCTTCTACCGCCTCAGATTCTACAAGGAAGACCCAAGAGT
TACACCCTGGGAAACGGAAAGTTTTTCATCACCCGCAAGTCACTGCTCGACGAGCTAATGGGGGTGCAACA
TTTCCGAACCATCTACCACATGTTTCATAGCAGGCTCTGTGTCTTGTATCATCAGTACCCTGGCCATCGAC
TTCATTGATGAGGGCAGGTTGATGCTGGAGTTTGATCTACTCCTTTCAGCTTCGGACAGCTGCCCTTGG
CGCTGATGATGTGGTCCCATGTTCTGTCCACGCTGCTTCTGCCCTACCAGACCTTGGGCTGTGGGC
CAGGCCACGCTCAGGGGGCGCCTGGACGCTGGGTGCCAGCCTGGGCTGTGTTCTGCTGGCTGCCACGCC
GCGGTGCTCTGCGTCTGCCGGTGCACGTGTAGTGAAGCATGAACTTCCACCGCCTCGCGCTGTGTGC
TTGTCTTTGAGCAGGTCAGATTCTGATGAAAAGCTACTCCTTCCCTGAGAGAGACTGTGCCTGGGATCTT
TTGTGTACAGAGGAGGAAAGGGCATCTGCACCCGAGTTTCTCCAGCTATCTACTTCTCTTCTGCCCT
ACACTCATCTACAGAGAAACATACCCAGGACACCCAGCATCAGGTGGAATTATGTGGCCAAAGAACTTTG
CCCAGGCTCTGGGCTGTTTGCTCTATGCCTGCTTCATCCTGGGCCGCCTCTGTGTCCCTGTCTTTGCCAA
CATGAGTCGAGAACCCCTCAGCACCCGGGCTCTGCTGTGTCATCCTGCACGCCACGGGGCCAGGCATC
TTCATGCTGCTCCTCATCTTCTTCGCCTTCTGCACTGCTGGCTCAACGCCTTCGCCGAGATGCTGCGGT
TTGGAGACAGAATGTTCTACCGGACTGGTGGAACTCTACTTCTTCTCCAATTATACCGAACTGGAA
CGTGGTGGTCCATGACTGGCTGTACAGCTACGTGTATCAAGATGGGCTGTGGCTCTTAGGAAGGCAGGGT
CGAGGGGCAGCCATGCTGGGAGTTCCTAGTGTCTGCCCTGGTACATGAGTACATCTTCTGCTTCGTCC
TGGGGTCTTCTACCGGTCTGCTGATCCTCTTCTTGTGGTTGGAGGTCTGCTGAACTTCACCATGAA
CGACAGGCACACAGGTCCAGCCTGGAACATCCTGATGTGGACCTTCTCTTCTGGGTCCAGGGCATCCAG
GTCAGCCTATACTGCCAGGAGTGGTACGCTCGGCGACACTGTCCCTTGGCCAGCCGACATTTTGGGAGC
TGGTGACACCTCGCTCCTGGTCTGCCACCC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_153728

Insert Size: 1575 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_153728.2](#), [NP_714950.2](#)

RefSeq Size: 2217 bp

RefSeq ORF: 1575 bp

Locus ID: 266770

UniProt ID: [Q7TQM4](#)

Cytogenetics: 7q36

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 (By similarity).[UniProtKB/Swiss-Prot Function]