

Product datasheet for **RR207391**

Soat2 (NM_153728) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR207391 representing NM_153728
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCAAAGGCGCCAGCTGCGGAGGAGAGAAAGGCAGGGAGAGGAGCAGGAGAACGGAGCCTGTG
 GAGAAGGGAACACAAGGACGCACAGAGCCCAGACCTGGTACAATGGACCGACATATGGAGGCTGTGAA
 GACACAGTGTCTGGAGCAAGCACAGAGAGATTGGCAGAGCTGATGGATCGGGCCATATGGGAAGCTGTG
 CAAGCCTACCCAAAACAAGACAGACCTCTTCTTCTACCGCCTCAGATTCTACAAGGAAGACCCAAGAGT
 TACACCCTGGGAAACGAAAGTTTTTCATCACCCGCAAGTCACTGCTCGACGAGCTAATGGGGGTGCAACA
 TTTCCGAACCATCTACCACATGTTTCATAGCAGGCCTCTGTGTCTTGTATCATAGTACCCTGGCCATCGAC
 TTCATTGATGAGGGCAGTTGATGCTGGAGTTTGATCTACTCCTTTCAGCTTCGGACAGCTGCCCTTGG
 CGTGATGATGTGGTCCCATGTTCTGTCCACGCTGCTTCTGCCCTACCAGACCTTGGGCTGTGGGC
 CAGGCCACGCTCAGGGGGCGCCTGGACGCTGGGTGCCAGCCTGGGCTGTGTTCTGCTGGCTGCCACGCC
 GCGGTGCTCTGCGTCTGCCGGTGCACGTGTAGTGAAGCATGAACTTCCACCGCCTCGCGCTGTGTGC
 TTGTCTTTGAGCAGGTCAGATTCTGATGAAAAGCTACTCCTTCCCTGAGAGAGACTGTGCCTGGGATCTT
 TTGTGTCAGAGGAGGAAAGGGCATCTGCACCCGAGTTTCTCCAGCTATCTACTTCTCTTCTGCCCT
 ACACTCATCTACAGAGAAACATACCCAGGACACCCAGCATCAGGTGGAATTATGTGGCCAAAGAACTTTG
 CCCAGGCTCTGGGCTGTTTGCTCTATGCCTGCTTCATCTGGGCCGCTCTGTGTCCCTGTCTTTGCCAA
 CATGAGTCGAGAACCTTCAGCACCCGGGCTCTGCTGTGCCATCCTGCACGCCAGGGGCCAGGCATC
 TTCATGCTGCTCCTCATCTTCTTCGCTTCTGCACTGCTGGCTCAACGCCTTCGCCGAGATGCTGCGGT
 TTGGAGACAGAATGTTCTACCGGACTGGTGAACCTACTTCTTCTCCAATATTACCGCACCTGGAA
 CGTGGTGGTCCATGACTGGCTGTACAGCTACGTGTATCAAGATGGGCTGTGGCTCTTAGGAAGGCAGGGT
 CGAGGGGCAGCCATGCTGGGAGTTCCTAGTGTCTGCCCTGGTACATGAGTACATCTTCTGCTTCTGTC
 TGGGTTCTTCTACCGGTCTGCTGATCCTCTTCTTGTGGTTGGAGGTCTGCTGAACTTACCATGAA
 CGACAGGCACACAGTCCAGCCTGGAACATCCTGATGTGGACCTTCTCTTCTGGGTGAGGCATCCAG
 GTCAGCCTATACTGCCAGGAGTGGTACGCTCGGCGACACTGTCCCTTGCCCGAGCCGACATTTTGGGAGC
 TGGTGACACCTCGCTCTGGTCTGCCACCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207391 representing NM_153728
 Red=Cloning site Green=Tags(s)

MEPKAPQLRRRERQGEEQENGACGEGNTRTHRAPDLVQWTRHMEAVKTQCLEQAQRELAELMDRAIWEAV
 QAYPKQDRPLPSTASDSTRKTQELHPGKRKVFITRKSLLDELMGVQHFRTIYHMF IAGLCVLIISTLAID
 FIDEGRMLLEFDLLLFSFGQLPLALMMWVPMFLSTLLLPHYQLRLWARPRSGGAWTLGASLGCVLLAAHA
 AVLCVLPVHVSVKHELPPASRCVLVFEQVRFLMKSYSFLRETVPGIFCVRGGKGICTPSFSSYLFLFCP
 TLIYRETYPRTPSIRWNYVAKNFAQALGCLLYACFILGRLCVPVFANMSREPFSTRALLLSILHATGPGI
 FMLLLIFFAFLHCWLNFAEMLRFGDRMFYRDWVNSTSFSNYYRTWNVVVDWL YSYVYQDGLWLLGRQG
 RGAAMLGVFLVSALVHEYIFCFVLGFFYPVMLILFLVVGGLLNFTMNDRHTGPAWNILMWTFLFLGQGIQ
 VSLYCQEWYARRHCPLPQPTFWELVTPRSWSCHP

TRTRPLEQK**L**I**SEEDLA**AND**ILDYK**DDDDK**V**

Restriction Sites:

Sgfl-MluI

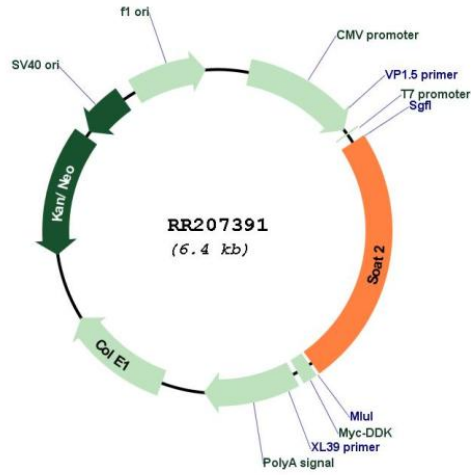
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_153728
ORF Size:	1572 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_153728.2 , NP_714950.2
RefSeq Size:	2217 bp
RefSeq ORF:	1575 bp
Locus ID:	266770
UniProt ID:	Q7TQM4
Cytogenetics:	7q36
MW:	60.5 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 (By similarity).[UniProtKB/Swiss-Prot Function]