

Product datasheet for **RG205774**

SOAT 1 (SOAT1) (NM_003101) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOAT 1 (SOAT1) (NM_003101) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SOAT 1
Synonyms:	ACACT; ACAT; ACAT-1; ACAT1; SOAT; STAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205774 representing NM_003101
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGGTGAAGAGAAGATGTCTCTAAGAAACCGGCTGTCAAAGTCCAGGGAAAATCTGAGGAAGATG
 AAGACCAGAGAAAACCTGCAAAGGAGTCCCTAGAGACACCTAGTAATGGTGAATTGACATAAAACAGTT
 GATAGCAAAGAAGATAAAGTTGACAGCAGAGGCAGAGGAATTGAAGCCATTTTTTATGAAGGAAGTTGGC
 AGTCACTTTGTGATTTTGTGACCAATCTCATTGAAAAGTCAAGTATAGATAATGGTGGGTGCGCTC
 TCACAACCTTTTCTGTTCTTGAAGGAGAGAAAAACAACCATAGAGCGAAGGATTTGAGAGCACCTCCAGA
 ACAAGGAAAGATTTTTATTGCAAGGCGCTCTCTTAGATGAAGTGTGAAAGTGGACCACATCAGAACA
 ATATATACATGTTTATTGCCCTCCTCATTCTCTTATCCTCAGCACACTGTAGTAGATTACATTGATG
 AAGGAAGGCTGGTCTTGAAGTTCAGCCTCCTGTCTTATGCTTTTGGCAAATTTCTACCGTTGTTGGAC
 CTGGTGGATCATGTTCTGTCTACATTTTCAGTCCCTATTTTCTGTTTCAACATTGGGCCACTGGCTAT
 AGCAAGAGTTCTCATCCGCTGATCCGTTCTCTTCCATGGCTTTCTTTTCATGATCTCCAGATTGGAG
 TTCTAGGTTTTGGACCAACATATGTTGTGTTAGCATATACACTGCCACCAGCTTCCCGTTTCATCATTAT
 ATTCGAGCAGATTCGTTTTGTAATGAAGGCCCACTCATTGTGAGAGAGAACGTGCCCTCGGTAATAAT
 TCAGCTAAGGAGAAAATCAAGCACTGTTCCAATACCTACAGTCAACCAGTATTTGACTTCTTATTGCTC
 CTACCTTATCTACCGTGACAGCTATCCAGGAATCCCACTGTAAGATGGGGTTATGTCGCTATGAAGTT
 TGCACAGGCTTTTGGTTGCTTTTTCTATGTGACTACATCTTTGAAAGGCTTTGTGCCCTTGTTCGG
 AATATCAAACAGGAGCCCTTCAAGCCTCGTGTCTGCTGCTATGTGATTTAACTCCATCTTGCCAGGTG
 TGCTGATTTCTCTCCTTACTTTTTTGCCTTTTTGCCTGCTGCTCAATGCCTTTGCTGAGATGTTACG
 CTTTGGTGACAGGATGTTCTATAAGGATTGGTGAAGTCCACGTCACTCAACTATTATAGAAGCTGG
 AATGTGGTGGTCCATGACTGGCTATATTACTATGCTTACAAGGACTTTCTCTGTTTTTCTCCAAGAGAT
 TCAAATCTGCTGCCATGTAGCTGTCTTGTGCTGTCTGCTGTAGTACACGAATATGCCTTGGCTGTTTG
 CTTGAGCTTTTTCTATCCCGTCTCTTCTGCTCTTCTGTTCTTTGGAATGGCTTTCAACTTATTGTC
 AATGATAGTCGAAAAAGCCGATTTGGAATGTTCTGATGTGGACTTCTTTTTCTGGGCAATGGAGTCT
 TACTCTGCTTTTATTCTCAAGAATGGATGCACGTCAGCACTGTCCTCTGAAAAATCCACATTTTTGGA
 TTATGTCCGGCCAGTTCCTGGACTTGTGTTACGTGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205774 representing NM_003101
 Red=Cloning site Green=Tags(s)

MVGEEKMSLRNRLSKSRENPEEDEDQRNPAKESLETSPNGRIDIKQLIAKKIKLTAEAEELKPFMKEVG
 SHFDDFVNTLIEKSASLDNGGCALTTFSVLEGEKNNHRAKDLRAPPEQKIFIARRSLLELLEVDHIRT
 IYHMFIALLLILFVLDYIDEGRLVLEFSLLSYAFGKFTVVTWIMFLSTFSVPYFLQHWATGY
 SKSSHPLIRSLFHGFLMIFQIGVLGFGPTYVVLAYTLPPASRFIIIFEQIRFVMKAHSFVRENVPRVLN
 SAKEKSSVPIPTVNQYLYFLFAPTLIYRDSYPRNPTVRWGYVAMKFAQVFGCFYVYVIFERLCAPLFR
 NIKQEPFSARVLLCVFNSILPGVLLFLFFAFLHCWLNFAEMLRFGDRMFYKDWNNSTYSNYRTW
 NVVVHDWLYYYAYKDFLWFFSKRFKSAAMLAVFAVSAVVHEYALAVCLSFYFVPLFVLFMFFGMAFNFIV
 NDSRKKPIWNVLMWTSFLGNGVLLCFYSQEWYARQHCPLKNPTFLDYVRPRSWTCRYVF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

RefSeq: [NM_003101.6](#)

RefSeq Size: 3407 bp

RefSeq ORF: 1653 bp

Locus ID: 6646

UniProt ID: [P35610](#)

Cytogenetics: 1q25.2

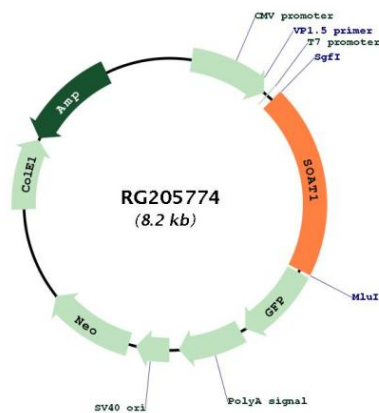
Domains: MBOAT

Protein Families: Transmembrane

Protein Pathways: Steroid biosynthesis

Gene Summary: The protein encoded by this gene belongs to the acyltransferase family. It is located in the endoplasmic reticulum, and catalyzes the formation of fatty acid-cholesterol esters. This gene has been implicated in the formation of beta-amyloid and atherosclerotic plaques by controlling the equilibrium between free cholesterol and cytoplasmic cholesteryl esters. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG205774