

Product datasheet for **MG209517**

Slc27a2 (NM_011978) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc27a2 (NM_011978) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc27a2
Synonyms:	ACSVL1; FATP2; Vlac; Vlacs; VLCS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209517 representing NM_011978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCAGTGTCTACACCGCCTGGCGGGGCTGCTGTGCTGCCTCTGCTGCTCACCTGCTGCTGCC
 CCTACCTCCTCCAAGATGTGCGGTACTTCTGCGGCTGGCCAACATGGCCCGGGTGCAGCTACCG
 GCAGCGCGACCCGTGCGTACCATCCTGCGGGCCTTCTGGAACAAGCGCGCAAGACCCACACAAGCCC
 TTCCTGCTGTTCCGAGACGAGACGCTCACCTACGCCAGGTGGACCGCGCAGCAACCAAGTGGCGCGG
 CGCTGCACGATCAACTGGCCTACGACAGGGGATTGCGTAGCCCTTTTCATGGGCAATGAGCCGCCTA
 CGTGTGGATCTGGCTGGGACTGCTCAAAGTGGGCTGTCCATGGCGTGCCTCAACTACAACATTCGTGCC
 AAGTCTCTGCTGACTGCTTTCAATGCTGCGGGGCGAAGGTGCTGCTGGCCTCCCAGATCTACAAGAAG
 CTGTGGAGGAGTTCTTCAACCCTGAAAAGGATGCCGTGTCCGTCTTTACGTAAGCAGAAGTCTTAA
 CACAAATGGTGTGACACAATACTGGACAAAGTAGACGGAGTGTGGCGGAACCCACCCCGAGTCTGG
 AGGTCTGAAGTCACTTTACCACGCCAGAGTATACATTTATACTTCGGGAACCCAGGTCTTCCAAAAG
 CGGCAACCATCAATCATCATCGCCTATGGTATGGGACAGGCCCTGCTATGTGAGTGGAAATCACGGCCA
 GGATGTATCTATACCACAATGCCCTGTACCACAGTGCAGCGCTCATGATCGGCCCTTACGGATGCATC
 GTGGTTGGGGCTACTTTAGCTTTGCGGAGCAAATTCACGCCAGCCAGTTTTGGGACGACTGCAGGAAAT
 ACAACGTCACGGTCATTCAGTACATTGGTGAAGTCTTCCGTACCTGTGCAACACACCCGAGAAACAAA
 TGACCGGGACCAAAAGTAAAAAGCCCTGGGAAATGGCTTACGAGGAGATGTGTGGAGAGAGTTCATC
 AAGAGATTTGGGACATCCAGTGTATGAGTTCTACGCATCCACTGAAGGCAACATTGGATTTGTGAAT
 ATCCAAGGAAAAATCGGTGCTGTGCGGAGAGCAAACCTACCAAAAGAAAGTTGCAAGTATGAGCTGAT
 CAAGTATGACGTGGAGAAGGACGAGCCGTCGCGTACGCAAAATGGATATTGCATCAAAGTCCCAAGGT
 GAGGTTGGACTCTTGTTTGCAAAATCACACAGCTCACACCATTTATTGGCTATGCTGGAGGAAAGACCC
 AGACAGAGAAGAAAAACTCAGAGATGTCTTAAAGAAAGGCGACATCTACTTCAACAGCGGAGACCTCCT
 GATGATCGACCGTGAAGACTTCTACTTTTACGACAGGGTTGGAGATACTTCCGGTGGAAAGGAGAG
 AACGTAGTACCACAGAAGTCTGACATCGTGGGACTGGTAGATTTTGTGAAGAAGTGAATGTGTATG
 GCGTGCCTGTGCCAGTGCATGAGGTCGAATGGGATGGCCTCCCTCAAGATCAAAGAAACTACGAGTT
 CAATGAAAGAAACTCTTCAACACATCGCGGAGTACCTGCCAGTTACGCGAGGCTCGGTTCTGAGG
 ATACAAGATACCATTGAGATCACTGGGACTTTTAAACCCGCAAAGTACCCTGATGGAAGAGGGCTTCA
 ATCCCACAGTCATCAAAGATACCTGTATTTTCATGGATGATGCAGAGAAAACATTTGTGCCATGACTGA
 GAACATTTATAATGCCATAATTGATAAAACTCTGAAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209517 representing NM_011978
 Red=Cloning site Green=Tags(s)

MLPVLYTGLAGLLLLPLLLTCCCPYLLQDVRYFLRLANMARRVRSYRQRRPVRTLRAFLEQARKTPHKP
 FLLFRDELTLYAQVDRRSNQVARALHDQLGLRQGDVLFMGNPAYVWIWLGLLKLGCPMACLNYNIRA
 KSL LHCFQCCGAKVLLASPDLQEAVEEVLPTLKKDAVSFVYSRTSNTNGVDTILDKVDGVSAPTEPSW
 RSEVTFITPAVYIYTSGLPKAATINHHRLWYGTGLAMSSGITAQDVIYTTMPLYHSAALMIGLHGCI
 VVGATLALRSKFSASQFWDRCRKYNVTVIQYIGELLRYLCNTPQKPNDRDHKVKKALGNLGRDGVWREFI
 KRFGDIHVEFYASTEGNIGFVNYPRKIGAVGRANYLQRKVARYELIKYDVEKDEPVRDANGYCIKVPKG
 EVGLLVCKITQLTPFIGYAGGKTQTEKKLRDVFKKGDIYFNSGDLLMIDRENFVYFHDRVGDTRWKGGE
 NVATTEVADIVGLVDFVEEVNRYGVPVPGHEGRIGMASLKIKENYEFNGKLFQHIAEYLPYSYARPRFLR
 IQDTIEITGTFKHKRVTLMEEGFNPTVIKDTLYFMDDAEKTFVPMTENIYNAIIDKTLKL

TRTRPLE - GFP Tag - V

Restriction Sites:

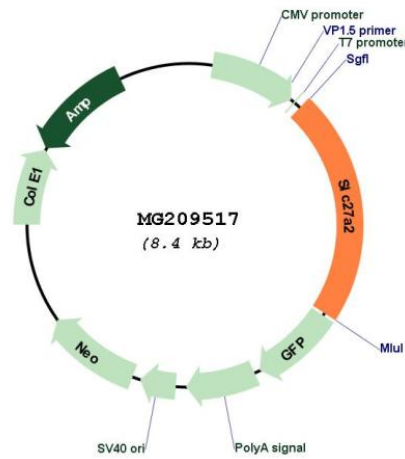
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_011978
 ORF Size: 1860 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_011978.2 , NP_036108.2
RefSeq Size:	2309 bp
RefSeq ORF:	1863 bp
Locus ID:	26458
UniProt ID:	O35488
Cytogenetics:	2 F1
Gene Summary:	Acyl-CoA synthetase probably involved in bile acid metabolism. Proposed to activate C27 precursors of bile acids to their CoA thioesters derivatives before side chain cleavage via peroxisomal beta-oxidation occurs. In vitro, activates 3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanate (THCA), the C27 precursor of cholic acid deriving from the de novo synthesis from cholesterol. Does not utilize C24 bile acids as substrates. In vitro, also activates long- and branched-chain fatty acids and may have additional roles in fatty acid metabolism (By similarity). May be involved in translocation of long-chain fatty acids (LFCA) across membranes.[UniProtKB/Swiss-Prot Function]