

Product datasheet for **MR209517**

Slc27a2 (NM_011978) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc27a2 (NM_011978) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc27a2
Synonyms:	ACSVL1; FATP2; Vlac; Vlacs; VLCS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209517 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCCAGTGTCTACACCGCCTGGCGGGGCTGCTGTGCTGCCTCTGCTGCTCACCTGCTGCTGCC
 CCTACCTCCTCCAAGATGTGCGGTACTTCTGCGGCTGGCCAACATGGCCCGCGGGTGCCGAGCTACCG
 GCAGCGCGACCCGTGCGTACCATCCTGCGGGCCTTCTGGAACAAGCGCGCAAGACCCACACAAGCCC
 TTCCTGTGTTCCGAGACGAGACGCTCACCTACGCCAGGTGGACCGCGCAGCAACCAAGTGGCGCGGG
 CGCTGCACGATCAACTGGCCTACGACAGGGGATTGCGTAGCCCTTTTCATGGGCAATGAGCCGCCTA
 CGTGTGGATCTGGCTGGGACTGCTCAAAGTGGGCTGTCCCATGGCGTGCCTCAACTACAACATTCGTGCC
 AAGTCTCTGCTGACTGCTTTCAATGCTGCGGGGCGAAGGTGCTGCTGGCCTCCCAGATCTACAAGAAG
 CTGTGGAGGAGTTCTTCAACCCTGAAAAGGATGCCGTGTCCGTCTTTACGTAAGCAGAAGTCTTAA
 CACAAATGGTGTGACACAATACTGGACAAAGTAGACGGAGTGTGGCGGAACCCACCCCGAGTCTGG
 AGGTCTGAAGTCACTTTACCACGCCAGAGTATACATTTATACTTCGGGAACCCAGGTCTTCCAAAAG
 CGGAACCATCAATCATCATCGCCTATGGTATGGGACAGGCCCTGCTATGTGAGTGGAAATCACGGCCCA
 GGATGTATCTATACCACAATGCCCTGTACCACAGTGCAGCGCTCATGATCGGCCCTTACGGATGCATC
 GTGGTTGGGGCTACTTTAGCTTTCGGGAGCAAATTCACGCCAGCCAGTTTGGGACGACTGCAGGAAAT
 ACAACGTCACGGTCATTCAAGTACATTGGTGAAGTGTTCGGTACCTGTGCAACACACCCGAGAAACAAA
 TGACCGGGACCAAAAGTAAAAAGCCCTGGGAAATGGCTTACGAGGAGATGTGTGGAGAGAGTTATC
 AAGAGATTTGGGACATCCAGTGTATGAGTTCTACGCATCCACTGAAGGCAACATTGGATTTGTGAAGT
 ATCCAAGGAAAAATCGGTGCTGTGCGGAGAGCAAACCTACCAAAAGAAAAGTTGCAAGATGAGCTGAT
 CAAGTATGACGTGGAGAAGGACGAGCCGTCCTGACGCAAATGGATATTGCATCAAAGTCCCAAAGGT
 GAGGTTGGACTCTTGGTTGCAAAATCACACAGCTCACACCATTTATTGGCTATGCTGGAGGAAAGACCC
 AGACAGAGAAGAAAAACTCAGAGATGTCTTAAAGAAAGGCGACATCTACTTCAACAGCGGAGACCTCCT
 GATGATCGACCGTGAAGACTTCTACTTTTACGACAGGGTTGGAGATACTTCCGGTGGAAAGGAGAG
 AACGTAGTACCACAGAAGTCGCTGACATCGTGGGACTGGTAGATTTTGTGAAGAAGTGAATGTGTATG
 GCGTGCCTGTGCCAGTGCATGAGGGTGAATGGGATGGCCTCCCTCAAGATCAAAGAAAACACGAGTT
 CAATGAAAGAAACTCTTCAACACATCGCGGAGTACCTGCCAGTTACGCGAGGCCCTCGGTTCTGAGG
 ATACAAGATACCATTGAGATCACTGGGACTTTTAAACCCGCAAAGTACCCTGATGGAAGAGGGCTTCA
 ATCCCACAGTCAAAAGATACCTGTATTTTCATGGATGATGCAGAGAAAACATTTGTGCCCATGACTGA
 GAACATTTATAATGCCATAATTGATAAAACTCTGAAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209517 protein sequence
 Red=Cloning site Green=Tags(s)

MLPVLYTGLAGLLLLPLLLTCCCPYLLQDVRYFLRLANMARRVRSYRQRRPVRTILRAFLEQARKTPHKP
 FLLFRDELTLYAQVDRRSNQVARALHDQLGLRQGDVALFMGNEPAYVWIWLGLLKLGCPMACLNYNIRA
 KSL LHCFQCCGAKVLLASPDLQEAVEEVLPTLKKDAVSFVYSRTSNTNGVDTILDKVDGVSAPETPESW
 RSEVFTTTPAVYIYTSGLPKAATINHHRLWYGTGLAMSSGITAQDVIYTTMPLYHSAALMIGLHGCI
 VVGATLALRSKFSASQFWDDCRKYNVTVIQYIGELLRYLCNTPQKPNDRDHKVKKALGNGLRGDVGWREFI
 KRFGDIHVEFYASTEGNIGFVNYPRKIGAVGRANYLQRKVARYELIKYDVEKDEPVRDANGYCIKVPKG
 EVGLLVCKITQLTPFIGYAGGKTQTEKKLRDVFKKGDIYFNSGDLLMIDRENFVYFHDRVGDTRFRWKE
 NVATTEVADIVGLVDFVEEVNVPVPGHEGRIGMASLKIKENYEFNGKLFQHIAEYLPYSYARPRFLR
 IQDTIEITGTFKHKRVTLMEEGFNPTVIKDTLYFMDDAEKTFVPMTENIYNAIIDKTLKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011978

ORF Size: 1863 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:

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

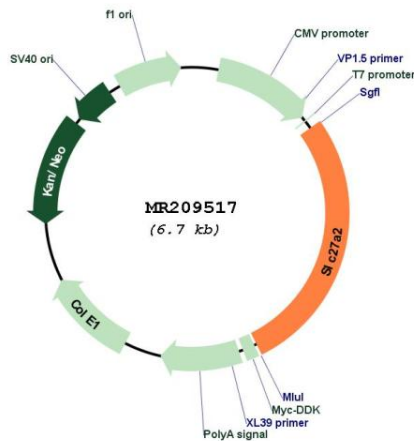
UniProt ID: [O35488](#)

Cytogenetics: 2 F1

MW: 70.4 kDa

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]

Product images:



Circular map for MR209517