

## Product datasheet for **MC206275**

### Slc27a2 (BC024735) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc27a2 (BC024735) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc27a2
Synonyms:	Vlacs, FATP2, VLCS, ACSVL1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC024735  
 CGCCAGCTCCTGCTCTGCTCCTCTCCCGCCTGCCGCCGCGCTGCACGCCTCGAGCACTCCCTCGGCCCG  
 GCGGGGACCGGGGACCCCGCAGCTACCGCCATGCTGCCAGTGCTACACCGGCCTGGCGGGGCTGCTGC  
 TGCTGCCTCTGCTGCTCACCTGCTGCTGCCCTACCTCCTCCAAGATGTGCGGTACTTCTGCGGCTGGC  
 CAACATGGCCCGGCGGGTGGCAGCTACCGGCAGCGGCGACCCGTGCGTACCATCCTGCGGGCCTTCTG  
 GAACAAGCGCGCAAGACCCACACAAGCCCTTCTGCTGTTCCGAGACGAGACGCTCACCTACGCCCAGG  
 TGGACCGGCGCAGCAACCAAGTGGCGGGGCGCTGCACGATCAACTGGGCTACGACAGGGGATTGCGT  
 AGCCCTTTCATGGCAATGAGCCGGCCTACGTGTGGATCTGGCTGGACTGCTCAAACCTGGGCTGTCCC  
 ATGGCGTGCCTCAACTACAACATTCTGTGCCAAGTCTCTGCTGCACTGCTTCAATGCTGCGGGGCGAAGG  
 TGCTGCTGGCCTCCCAGATCTACAAGAAGCTGTGGAGGAGTTCTTCAACCCTGAAAAAGGATGCCGT  
 GTCCGTCTTTTACGTAAGCAGAACTTCTAACACAAATGGTGTGGACACAATACTGGACAAAGTAGACGGA  
 GTGTGCGGGAACCCACCCCGGAGTCGTGGAGGTCTGAAGTCACTTTTACCACGCCAGCAGTATACATTT  
 ATACTTCGGGAACACAGGTCTTCCAAAAGCGGCAACCATCAATCATCATCGCTATGGTATGGGACAGG  
 CCTTGCTATGTGAGTGAATCACGGCCAGGATGTCATCTATACCACAATGCCCTGTACCACAGTGCA  
 GCGCTCATGATCGGCCTTACGGATGCATCGTGGTTGGGGCTACTTTAGCTTTGCGGAGCAAATTTCTCAG  
 CCAGCCAGTTTTGGGACGACTGCAGGAAATACAACGTCACGGTCAATTCAGTACATTTGGTGAACCTGCTTCG  
 GTACCTGTGCAACACACCCGAGAAACCAATGACCCGGGACCACAAAGTAAAAAGCCCTGGGAAATGGC  
 TTACGAGGAGATGTGTGGAGAGAGTTTCAAGAGATTTGGGGACATCCACGTGTATGAGTTCTACGCAT  
 CCACTGAAGGCAACATTTGGATTTGTGAATATCCAAGGAAAAATCGGTGCTGTGCGGAGAGCAAACCTACCT  
 ACAAGAAAAAGTTGCAAGGTATGAGCTGATCAAGTATGACGTGGAGAAGGACGAGCCGGTCCGTGACGCA  
 AATGGATATTGCATCAAAGTCCCAAGGTGAGGTTGGACTCTTGGTTTGCAAAATCACACAGCTCACAC  
 CATTTATTGGCTATGCTGGAGGAAAGACCCAGACAGAGAAGAAAAAACTCAGAGATGCTTTAAGAAAGG  
 CGACACTACTTCAACAGCGGAGACCTCCTGATGATCGACCGTGAGAACTTCGTCTACTTTCACGACAGG  
 GTTGGAGATACTTCCGGTGGAAAAGGAGAGAACGTAGCTACCACAGAAGTCGCTGACATCGTGGGACTGG  
 TAGATTTTGTGAAGAAGTGAATGTGTATGGCGTGCCTGTGCCAGGTCATGAGGGTCGAATTTGGGATGGC  
 CTCCTCAAGATCAAAGAAAACTACGAGTTCAATGGAAAGAACTCTTTCAACACATCGCGGAGTACCTG  
 CCCAGTTACGCGAGGCCTCGGTTCTGAGGATACAAGATACCATTGAGATCACTGGGACTTTTAAACACC  
 GCAAAGTGACCCTGATGGAAGAGGGCTTCAATCCACAGTCATCAAAGATACCTTGTATTTTATGGATGA  
 TGCAGAGAAAAACATTTGTGCCATGACTGAGAATTTATAATGCCATAATTGATAAACTCTGAAGCTC  
 TGAATATTCCTGGTGGTTTAGCTCATGACATTTCCAGAAAGAACTCGATAGACCTCGCAGAGCCACTT  
 CATACTGAGAATCCAACCTTAACTTGATTGAAGGCTATAAGGTGCGATTTTATTTTATAGGAAATTATTCA  
 TTTAAAAGGATAGTTTGTGTTTTTTTTTTTTAAATTACACCTGAACCTTTGCAAGTAAAAAGATTTAGAAA  
 CAATTATTTTTCAATGTGCACCTGCCATTTGTCCTTGCAAACTAAGCTTCTTGGAGAGAGGGCCTTATTT  
 TTTTAAAGACATAATAAACTATATTAACACTAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** EcoRI-NotI

**ACCN:** BC024735

**Insert Size:** 1863 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:** [BC024735](#), [AAH24735](#)

**RefSeq Size:** 2288 bp

**RefSeq ORF:** 1863 bp

**Locus ID:** 26458

**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]