

Product datasheet for **MR210058**

Slc27a5 (NM_009512) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc27a5 (NM_009512) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc27a5
Synonyms:	FACVL3; FATP5; Vlacsr; VLCS-H2; VLC SH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210058 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGGTATTTGGAAGAACTAACCTTACTGCTGTTGCTGCTTCTGCTGGTTGGCCTGGGGCAGCCCCAT
GGCCAGCAGCTATGGCTCTGGCCCTGCGTTGGTTCCTGGGAGACCCACATGCCTTGTGCTGCTTGGCTT
GGCATTGCTGGGCAGACCCTGGATCAGCTCCTGGATGCCCCACTGGCTGAGCCTGGTAGGAGCAGCTCTT
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GAGTGTGTTTCTGGGGTTGGCCAAGTTGGGCTGCCCTGTGGCCTGGATCAATCCACACAGCCGAGGGATG
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TGTGTACCAGGCTGTGTGAAGGAACCTGGAATCTC

AGCGGACCCACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
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Protein Sequence: >MR210058 protein sequence
 Red=Cloning site Green=Tags(s)

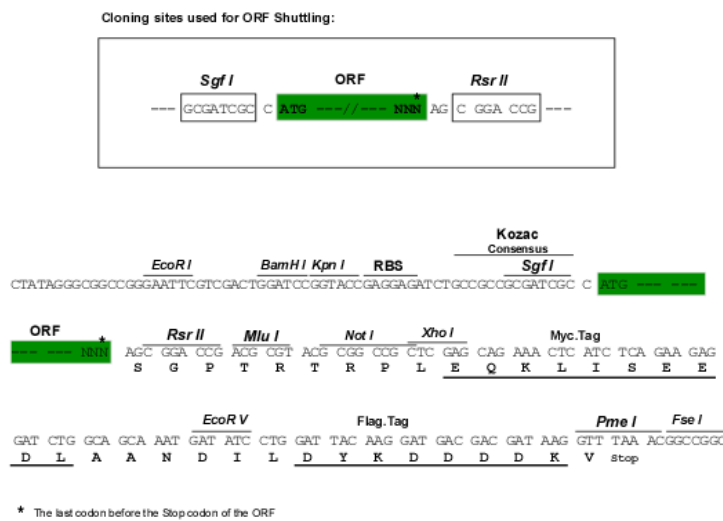
MGIWKKLTLLLLLLVGLGQPPWPAAMALALRWFLGDPTCLVLLGLALLGRPWISSWMPHWLSLVGAAL
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 PLLHSVRSSGASVLI VDPDLQENLEEVLPKLLAENIHCFYLGHSPTPGVEALGASLDAAPSDPVPASLR
 ATIKWKS PAIFIFTSGTTGLPKPAILSHERVIQVSNVLSFCGCRADDVYVDVLPYHTIGLVGLGCLQ
 VGATCVLAPKFSASRFWAECRQHGVTVILYVGEILRYLCNVPEQPEDIHTVRLAMGNLRANVWKNFQQ
 RFGPIRIWEFYGSTEKNVGLMNYVGHGAVGRTSCILRMLTPFELVQFDIETAELRDKQGF CIPVEPGK
 PGLLLTKVRKNQPF LGYRGSQAESNRKLVANVRRVGDLYFNTGDVLTLDQEGFFYFQDRLGDTFRWKG
 VSTGEVECVLSSLDLFLEEVNVYVVPVPGCEGKVGMAAVKLAPGKTFDGGKLYQHVRSWLPAYATPHFIRI
 QDSLEITNTYKLVKSRLVREGFDVGIADPLYILDNKAQTFRSLMPDVYQAVCEGTWNL

SGPTRRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN: NM_009512

ORF Size: 2070 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_009512.2](#)

RefSeq Size: 2336 bp

RefSeq ORF: 2070 bp

Locus ID: 26459

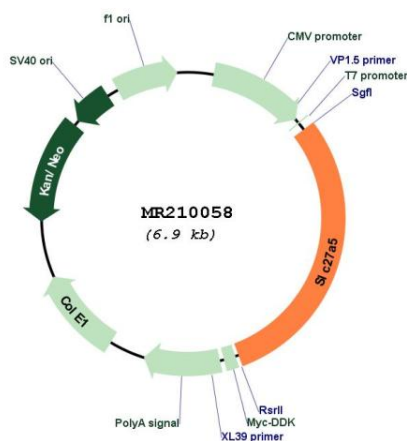
UniProt ID: [Q4LDG0](#)

Cytogenetics: 7 A1

MW: 76.2 kDa

Gene Summary: Acyl-CoA synthetase involved in bile acid metabolism. Proposed to catalyze the first step in the conjugation of C24 bile acids (choloneates) to glycine and taurine before excretion into bile canaliculi by activating them to their CoA thioesters. Seems to activate secondary bile acids entering the liver from the enterohepatic circulation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210058