

Product datasheet for **MG209437**

Acsf2 (NM_153807) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsf2 (NM_153807) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acsf2
Synonyms:	MGC25878
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209437 representing NM_153807
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGTCTATACGGGATGCTGCGCTTCGGGAGGCTGTGTATCGCGAGCCTGGGGCGCGGGGCCCC
 GGACGCTGCTCTCGCCCTCGGCCGAAGTTCGAAGTTGCAGAGTGTCCGCGCTCTCAGTTCTGGAATGGT
 GAACTGCACCAACCCCTTGCCCATCGGAGGCTCAGCTACATTCAGGGCCACACCGACTCCCATCTTG
 AACACAACGTGGGCGAGTGCCTTGACGCCACGGCGCAGAGGTTCCCGACAGAGAGGCTTTGGTTATCC
 TCCATGAAAACATCAGGCTGAACTTTGCAGCTCAAGGAGGAGGTGGACAAAGCTGCTTCTGGTCTTCT
 GAGCATTGGCCTCCGCAAGGGTGACCGCTGGGCATGTGGGGACCAACTCCTATGCCTGGGACTTATT
 CAGCTGGCTACTGCCAGGCAGGCATCATCTGGTGTCTGTGAACCCAGCCTACCAGTCTCAGAAGTGG
 AATATGTCCTCAGAAAGGTAGGCTGCAAAGGTATTGTGTTTCCCAAACAATTCAAGACCCAGCAGTACTA
 CGACATCTGAAGCAGGCTGTCTGAGCTGAAAAGGCTCAGCCAGGGGCTTGAAGAGTGAGAGACTC
 CCAGACCTGACTACAGTCATCTCAGTGGATGCCCTCTGCCGGGGACCTGCTCCTGGATGATATTGTGG
 CAGCCGGTGGCAAGGAACAGAACCTAGCCAGCTGCGGTACAACCCAGCGTTCTTGTCTGCTACGACCC
 CATCAACATCCAGTTCACCTCGGGGACAACTGGAAACCCCAAGGGGGCCACTCTTCCCACCACAACATC
 GTAACAACCTCCATGCTGATAGGCCAGCGTCTGAAGATGCCACAAAGACTGCAGAGGAGTTGCGCTTGG
 TCCTGCCAGTCCCCTGTACCACTGCCTGGGCTCCGTGGGGGGCACAATGGTGTCTATGATGCATGGTGC
 CACTCTCTCTGTCTTCTCCAAGCTTCAATGGCAAGAAGGCATTGGAAGCCATCAGCAGAGAGAAAAGGC
 ACCCTCTGTATGGCACACCCACGATGTTTGTGGATATTCTGAATCAGCCAGACTTCTCCAGTTATGATT
 TCACAAGCATTCTGGAGGTGTGATTGCTGGGTCACAGCAGCCAGAAATTGATTGAGCCATCAACA
 CAAGATGAACATGAAGGAGCTGGTGGTTTATGGAACCCACAGAGAACAGTCCCGTGACCTTCATGAAC
 TTTCCCGAGGACACCCTGGAGCAGAAGGCTGGTAGTGTGGGCAGAATTATGCCTCACACGGAGGCCAGA
 TTGTGAATGTGGAGACGGGTGAGCTGACCAACCTGAACGTGCCTGGGGAGCTGTATATCCGAGGGTACTG
 CGTCATGCAGGGCTACTGGGGTGAAGCACAAGACCTTCGAGACGGTCGGACAAGACAAGTGGTATCGG
 ACAGGAGACATTGCTTTGATGGATGAACAGGGCTTCTGCAAGATCGTCGGCCGATCGAAGGATATGATCA
 TCCGTGGCGGTGAGAACATCTACCCTGCAGAGCTGGAGGACTTCTCCTCAAGCACCCACAGGTGCAGGA
 AGCGCAGGTGGTGGGGTGAAGGACGAGCGGATGGGGAGGAAATCTGTGCTTGCAATTCGGCTGAAGAGC
 GGAGAGACCACCGGCGGAGGAGATCAAAGCTTCTGCAAAGGGAAGATTTCCCACTTTAAGATCCCC
 GATACATCGTGTGTTGTTGAAGGCTATCCTCTACCATCTCAGGAAAGATCCAGAAATTCAAACCTCCGAGA
 GCAGATGGAACAGCATCTAAAAGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209437 representing NM_153807
 Red=Cloning site Green=Tags(s)

MAYYHGMLRFGRLCIASLGARGPRTLLSRPRPNSKLQSVRALSSGMVNCTNPLPIGGLSYIQHTDShLV
 NTTVGECLDATAQRFPDREALVILHENIRLNFAQLKEEVDKAASGLLSIGLRKGDRLGMWGPNSYAWVLI
 QLATAQAGIILSVNPAYQSSELEYVLRKVGCKGIVFPKQFKTQQYYDILKQVCELEKAQPALKSERL
 PDLTTVISVDAPLPGTLLDDIVAAGGKEQNLALRYNQRFVSCYDPINIQFTSGTTGNPKGATLSHHNI
 VNNSMLIGQRLKMPKTAELRLVLPSPLYHCLGSVGGTMVSMHGHATLLLSSPSFNGKKALEAISREKG
 TLLYGTPTMFVDILNQPDFSSYDFTSIRGGVIAGSPAPPELIRAIINKMNMKELVVVYGTTENSPVTFMN
 FPEDTLEQKAGSVGRIMPHTAQIVNVETGELTNLNVPGELYIRGYCVMQGYWGEPEQKTFETVQDKWYR
 TGDIALMDEQGFCKIVGRSKDMIIRGGENIYPAELEDFFLKHPQVQEAQVVGKDERMGEIICACIRLKS
 GETTTAEIKAFCKGKISHFKIPRYIVFVEGYPLTISGKIQKFKLREQMEQHLKL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_153807

ORF Size: 1845 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_153807.1](#)

RefSeq Size: 3069 bp

RefSeq ORF: 1848 bp

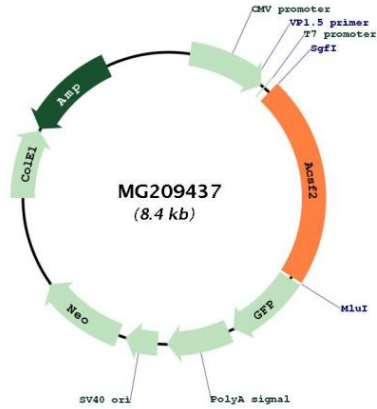
Locus ID: 264895

UniProt ID: [Q8VCW8](#)

Cytogenetics: 11 D

Gene Summary: Acyl-CoA synthases catalyze the initial reaction in fatty acid metabolism, by forming a thioester with CoA. Has some preference toward medium-chain substrates. Plays a role in adipocyte differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209437