

Product datasheet for **SC108350**

ACSF2 (NM_025149) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSF2 (NM_025149) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSF2
Synonyms:	ACSMW; AVYV493
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC108350 sequence for NM_025149 edited (data generated by NextGen Sequencing)

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ATGGCTGTCTACGTGGGATGCTGCGCCTGGGGAGGCTGTGCGCCGGGAGCTCGGGGGTG
CTGGGGGGCCCGGGCCGCCCTCTCTCGGAGTTGGCAGGAAGCCAGGTTGCAGGGTGTCCGC
TTCCTCAGTTCAGAGAGGTGGATCGCATGGTCTCCACGCCCATCGGAGGCCTCAGCTAC
GTTCCAGGGGTGCACAAAAAGCATCTTAACAGCAAGACTGTGGCCAGTGCCTGGAGACC
ACAGCACAGAGGGTCCCAGAACGAGAGGCCTTGGTCGTCCTCCATGAAGACGTCAGGTTG
ACCTTTGCCCAACTCAAGGAGGAGGTGGACAAAGCTGCTTCTGGCCTCCTGAGCATTGGC
CTCTGCAAAGGTGACCGGCTGGGCATGTGGGGACCTAACTCCTATGCATGGGTGCTCATG
CAGTTGGCCACCGCCAGGCGGGCATCATTCTGGTGTCTGTGAACCCAGCCTACCAGGCT
ATGGAAGTGGAGTACGTCTCAAGAAGGTGGGCTGCAAGGCCCTTGTGTTCCCAAGCAA
TTCAAGACCCAGCAATACTACAACGTCTGAAGCAGATCTGTCCAGAAGTGGAGAATGCC
CAGCCAGGGGCTTGAAGAGTCAAGGCTCCAGATCTGACCACAGTCATCTCGGTGGAT
GCCCTTTGCCGGGACCCTGCTCCTGGATGAAGTGGTGGCGGCTGGCAGCACACGGCAG
CATCTGGACCAGTCCAATAACAACAGCAGTTCCTGTCTGCCATGACCCCATCAACATC
CAGTTCACCTCGGGGACAACAGGCAGCCCAAGGGGGCCACCCTCTCCACTACAACATT
GTCAACAACCTCAACATTTTAGGAGAGCGCCTGAAACTGCATGAGAAGACACCAGAGCAG
TTGCGGATGATCTGCCAACCCCTGTACCATTGCCTGGGTTCCGTGGCAGGCACAATG
ATGTGTCTGATGTACGGTGCCACCCTCATCTGGCCTCTCCCATCTTCAATGGCAAGAAG
GCACTGGAGGCCATCAGCAGAGAGAGAGGCACCTTCTGTATGGTACCCACAGTGTTC
GTGGACATTCTGAACAGCCAGACTTCTCCAGTTATGACATCTCGACCATGTGTGGAGGT
GTC AATGCTGGTCCCCTGCACCTCCAGAGTTGATCCGAGCCATCATCAACAAGATAAAT
ATGAAGACCTGGTGGTTGCTTATGGAACCAAGAGAACAGTCCCGTGACATTGCGGCAC
TTCCTTGAGGACACTGTGGAGCAGAAGGCAGAAAGCGTGGGCAGAAATTATGCCTCACACG
GAGGCCCGGATCATGAACATGGAGGCAGGACGCTGGCAAAGCTGAACACGCCCGGGGAG
CTGTGCATCCGAGGGTACTGCGTCATGCTGGGCTACTGGGGTGAGCCTCAGAAGACAGAG
GAAGCAGTGGATCAGGACAAGTGGTATTGGACAGGAGATGTGCCACAATGAATGAGCAG
GGCTTCTGCAAGATCGTGGGCCGCTCTAAGGATATGATCATCCGGGGTGGTGAACAATC
TACCCCGCAGAGCTCGAGGACTTCTTTACACACACCCGAAGGTGCAGGAAGTGCAGGTG
GTGGGAGTGAAGACGATCGGATGGGGGAAGAGATTTGTGCTGCATTGCGCTGAAGGAC
GGGGAGGAGACCAGGTGGAGGAGATAAAAGCTTCTGCAAAGGGAAGATCTCTCACTTC
AAGATTCGAAAGTACATCGTGTGTTGTACAAAACCTACCCCTCACCATTTCAAGAAAGATC
CAGAAATTCAAACTTCGAGAGCAGATGGAACGACATCTAAATCTGTGA
    
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Clone variation with respect to NM_025149.4
495 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_025149 unedited

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GCACCAGGCAGGGCAAAGCGAGCCATGGCTGTCTACGTGGGATGCTGCGCCTGGGGAGG
CTGTGCGCCGGGAGCTCGGGGGTGTGGGGGCCCGGGCCGCCCTCTCTCGGAGTTGGCAG
GAAGCCAGGTTGCAGGGTGTCCGCTTCTCAGTTCAGAGAGGTGGATCGCATGGTCTCC
ACGCCCCATCGGAGGCCTCAGCTACGTTCCAGGGTGCACAAAAAGCATCTTAACAGCAAG
ACTGTGGCCAGTGCCTGGAGACCACAGCACAGAGGGTCCCAGAACGAGAGGCCTTGGTC
GTCCTCCATGAAGACGTCAGGTTGACCTTTGCCCAACTCAAGGAGGAGGTGGACAAAGCT
GCTTCTGGCCTCCTGAGCATTGGCCTCTGCAAAGGTGACCGGCTGGGCATGTGGGGACCT
AACTCCTATGCATGGGTGCTCATGCAGTTGGCCACCGCCAGGCGGGCATCATTCTGGTG
TCTGTGAACCCAGCCTACCAGGCTATGGAAGTGGAGTACGTCTCAAGAAGTGGGCTGC
AAGGCCCTTGTGTTCCCAAGCAATTAAGACCCAGCAATACTACAACGTCTGAAGCAG
ATCTGTCCAGAAGTGGAGAATGCCAGCCAGGGCCCTTGAAGAGTCAAGAGGCTCCAGAT
CTGACCACAGTCATCTCGGTGGATGCCCTTTGCCGGGACCCTGCTCCTGGATGAAGTG
GTGGCGGCTGGCAGCACACGGCAGCATCTG
    
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3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_025149 unedited NNAATTACTTGAACCGCGGCCCTATCTANGATCGATTTTTTTTTTTTTTTTTTTTTTCCAT TCCTGTGAACTGGGAATCTATGTGCCTTTTGGAAACCCAGCTGTTTTATTTCTTGGGTCA AGGTACAACCTGCTTTATCTGGCCCTGCCTACGAGGGATGCCCCAGGTTCAACCAATCAA ACAAATAAAAATAAAAATGAGGTTGGTTGGGGAAGGAAGGGGGCCTGGGAAATAGGGAG ATAATANTTAAAGAGTATGGGGTTTNTTTTTTAGGTGATGACATTATTTAACTTGACTG TGGTGATAATTACCCTTATTTGTGAATTTCTAAAACCACTGAATTCTATACTTTAAAT GGTACATTGACCCAACACTTTAAACAACTGAGGCAGGAAGATTGCTTGAACCCATGACTT TTAAACTAACCTAAGCAACCAAGAAAGAACCTGTCACTATGTTAAAAACTTACTTAAGAA ATGGTGGCACATTCTACAATCCACACTCCCCACGAGGCTCCGGTGGGAAGACTGCCTGA ACCCAATAGTTAAAGGCTGCACCGACATAAACTAACGCCCCCTACTATGAAGTCCCCGCA CCCCACCCGCATGACACCATGAAGATCCAGGACCCAGAACAAAGGGCGAAGGCGGGACA GAACCCGGCAACAACGGAACTACACCTCAATCCCCCTGGTTACACCTATATCAGAAAG AACACTTTAATCGAAAGCAACCCCGAAGATACGCCAAAACAATAAAGACAACACT CCCCCTAACACGAAAAAGTGAGGCCAAGGAGCACATGCCGCATCGACCAGAAACCACC AAACAATAGGACGACATAAGACCGCGGAGAAGCACTGACGGAACGGGGCTGACAGAAACA ACACCGAAACAACCTGATAAAAGCAACGC
Restriction Sites:	NotI-NotI
ACCN:	NM_025149
Insert Size:	4000 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:	<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:	<u>NM_025149.3</u> , <u>NP_079425.2</u>
RefSeq Size:	2205 bp
RefSeq ORF:	1848 bp
Locus ID:	80221
UniProt ID:	<u>Q96CM8</u>
Cytogenetics:	17q21.33
Domains:	AMP-binding

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]

Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.