

## Product datasheet for **RC239052**

### ACSF2 (NM\_001288969) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACSF2 (NM_001288969) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACSF2
Synonyms:	ACSMW; AVYV493
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RC239052 representing NM\_001288969  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGTCTACGTCGGGATGCTGCGCCTGGGGAGGCTGTGCGCCGGGAGCTCGGGGGTGTGGGGGCC  
 GGGCCGCCCTCTCTCGGAGTTGGCAGGAAGCCAGGTTGCAGGGTTCGCTTCTCAGTTCCAGAGAGGT  
 GGATCGCATGGTCTCCACGCCCATCGGAGGCTCAGCTACGTTACAGGGTGCACCAAAAAGCATCTTAAC  
 AGCAAGACTGTGGCCAGTGCCTGGAGACCACAGCACAGAGGGTCCCAGAACGAGAGGCCTTGGTCGTCC  
 TCCATGAAGACGTCAGGTTGACCTTTGCCAACTCAAGGAGGAGGTGGACAAAGCTGCTTCTGGCCTCT  
 GAGCATTGGCCTCTGCAAAGGTGACCGGCTGGGCATGTGGGGACCTAACTCCTATGCATGGGTGCTCATG  
 CAGTTGGCCACCGCCAGGCTATGGAATGGAGTATGCCTCAAGAAGGTGGGCTGCAAGGCCCTTGTGT  
 TCCCAAGCAATTCAAGACCCAGCAATACTACAACGCTCTGAAGCAGATCTGCCAGAAGTGAGAAATGC  
 CCAGCCAGGGGCCTTGAAGAGTCAGAGGCTCCCAGATCTGACCACAGTCATCTCGGTGGATGCCCTTTG  
 CCGGGGACCTTGCTCCTGGATGAAGTGGTGGCGGCTGGCAGCACCGGCAGCATCTGGACCAGCTCCAAT  
 ACAACCAGCAGTTCCTGTCTGCATGACCCCATCAACATCCAGTTCACCTCGGGGACAACAGGCAGCCC  
 CAAGGGGGCCACCCTCTCCCACTACAACATTGTCAACAACCTCAACATTTTAGGAGAGCGCCTGAAACTG  
 CATGAGAAGACACCAGAGCAGTTGCGGATGATCCTGCCAACCCCTGTACCATTGCCTGGGTCCCGTGG  
 CAGGCACAATGATGTGTCTGATGTACGGTGCCACCCTCATCTGGCCTCTCCCATCTTCAATGGCAAGAA  
 GGCAGTGGAGGCCATCAGCAGAGAGAGAGGCACCTTCTGTATGGTACCCACAGATGTTCTGTGGACATT  
 CTGAACCCAGACTTCTCCAGTTATGACATCTCGACCATGTGTGGAGGTGTCATTGCTGGTCCCCTG  
 CACCTCCAGAGTTGATCCGAGCCATCATCAACAAGATAAATATGAAGACCTGGTGGTTGCTTATGGAAC  
 CACAGAGAACAGTCCCGTGACATTCGCGCACTTCCCTGAGGACACTGTGGAGCAGAAGGCAGAAAGCGTG  
 GGAGAAATTATGCCTCACACGGAGGCCCGATCATGAACATGGAGGCAGGGACGCTGGCAAAGCTGAACA  
 CGCCCGGGAGCTGTGCATCCGAGGGTACTGCGTCATGCTGGGCTACTGGGGTGGCCTCAGAAGACAGA  
 GGAAGCAGTGGATCAGGACAAGTGGTATTGGACAGGAGATGTCGCCACAATGAATGAGCAGGGCTTCTGC  
 AAGATCGTGGGCCGCTCTAAGGATATGATCATCCGGGGTGGTGAAGACATCTACCCCGCAGAGCTCGAGG  
 ACTTCTTTCACACACCCGAAGGTGCAGGAAGTGCAGGTGGTGGGAGTGAAGGACGATCGGATGGGGGA  
 AGAGATTTGTGCCTGCATTCGGCTGAAGGACGGGGAGGAGACCACGGTGGAGGAGATAAAAGCTTCTGC  
 AAAGGGAAGATCTCTCACTTCAAGATTCGAAGTACATCGTGTTGTACAAACTACCCCTCACCATT  
 CAGGAAAGATCCAGAAATCAAACCTCGAGAGCAGATGGAACGACATCTAAATCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239052 representing NM\_001288969  
 Red=Cloning site Green=Tags(s)

MAVYVGLRLGRLCAGSSVGLGARAALRSRWEARLQGVRFLLSREVDMMVSTPIIGGLSYVQGTCKKHLN  
 SKTVGQCLETTAQRVPEREALVVLHEDVRLTFAQLKEEVDKAASGLLSIGLCKGDRLGMWGPNSYAWVLM  
 QLATAQAMELEYVLKVGCKALVFPKQFKTQQYYNVLKQICPEVENAQPALKSQRLPDLTTVISVDAPL  
 PGTLLLDEVVAAGSTRQHLDQLYNNQFLSCHDPINIQFTSGTTGSPKGATLSHYNIWNNSNILGERLKL  
 HEKTPEQLRMILPNPLYHCLGSVAGTMMCLMYGATLILASPIFNGKKALEAISRERGTFLYGTPTMFVDI  
 LNQPDFSSTYDSTMCGGVIAGSPAPPELIRAIINKINMKDLVVAYGTENSPVTFHFPEPTVEQKAESV  
 GRIMPHTEARIMMEAGTLAKLNTPGELCIRGYCVMLGYWGPQKTEEAVDQDKWYWTGDVATMNEQGF  
 KIVGRSKDMIIRGGENIYPAELEDFFHHPKVQEVQVGVKDDRMGEEICACIRLKDGEETTVEEIKAF  
 KGKISHFKIPKYIVFVTNYPLTISGKIQKFKLREQMERHLNL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001288969.1</a> , <a href="#">NP_001275898.1</a>
<b>RefSeq Size:</b>	2206 bp
<b>RefSeq ORF:</b>	1809 bp
<b>Locus ID:</b>	80221
<b>UniProt ID:</b>	<a href="#">Q96CM8</a>
<b>Cytogenetics:</b>	17q21.33
<b>MW:</b>	67.2 kDa
<b>Gene Summary:</b>	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]