

## Product datasheet for **RG239052**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACSF2 (NM_001288969) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACSF2
Synonyms:	ACSMW; AVYV493
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239052 representing NM\_001288969.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCTGTCTACGTCGGGATGCTGCGCCTGGGGAGGCTGTGCCCGGGAGCTCGGGGTGCTGGGGCC
CGGGCCGCCCTCTCTCGGAGTTGGCAGGAAGCCAGGTTGCAGGGTGTCCGCTTCTCAGTCCAGAGAG
GTGGATCGCATGGTCTCCACGCCATCGGAGCCCTCAGCTACGTTTCAGGGGTGCACCAAAAAGCATCTT
AACAGCAAGACTGTGGCCAGTGCTGGAGACCACAGCACAGAGGTCACAGAAGCAGAGGCCTTGTC
GTCCTCCATGAAGACGTAGGTTGACCTTTGCCAACTCAAGGAGGAGGTGGACAAAGCTGCTTCTGGC
CTCCTGAGCATTGGCCTCTGCAAAGGTGACCGGCTGGGCATGTGGGGACCTAACTCCTATGCATGGGTG
CTCATGCAGTTGGCCACCGCCAGGCTATGGAAGTGGAGTATGTCCTCAAGAAGTGGGCTGCAAGGCC
CTTGTGTTCCCAAGCAATTCAAGACCCAGCAATACTACAACGCTCTGAAGCAGATCTGTCCAGAAGTG
GAGAATGCCAGCCAGGGGCCCTGAAGAGTCAGAGGCTCCAGATCTGACCACAGTCATCTCGGTGGAT
GCCCTTTGCCGGGACCCTGCTCCTGGATGAAGTGGTGGCGGCTGGCAGCACACGGCAGCATCTGGAC
CAGCTCCAATACAACCAGCAGTTCCTGTCTGCCATGACCCCATCAACATCCAGTTCACCTCGGGGACA
ACAGGCAGCCCCAAGGGGGCCACCTCTCCCACTACAACATTGTCAACAACCTCAACATTTTAGGAGAG
CGCCTGAAACTGCATGAGAAGACACCAGAGCAGTTGCGGATGATCCTGCCCAACCCCTGTACCATTGC
CTGGGTTCCGTGGCAGGCACAATGATGTGTCTGATGTACGGTGCCACCCTCATCTGGCCTCTCCATC
TTCAATGGCAAGAAGGCACTGGAGGCCATCAGCAGAGAGAGAGGCACCTTCTGTATGGTACCCCAAG
ATGTTTCGTGGACATTCTGAACCAGCCAGACTTCTCCAGTTATGACATCTCGACCATGTGTGGAGGTGC
ATTGCTGGTCCCCTGCACCTCCAGAGTTGATCCGAGCCATCATCAACAAGATAAATATGAAGGACCTG
GTGGTTGCTTATGGAACCACAGAGAACAGTCCCCTGACATTCGCGCACTTCCCTGAGGACACTGTGGAG
CAGAAGGCAGAAAAGCGTGGGCAGAAATTATGCCTACACGAGGCGCCGGATCATGAACATGGAGGCAGGG
ACGCTGGCAAAGCTGAACACGCCGGGAGCTGTGCATCCGAGGTAAGTGCATGCTGGGCTACTGG
GGTGGCCTCAGAAGACAGAGGAAGCAGTGGATCAGGACAAGTGGTATTGGACAGGAGATGTCGCCACA
ATGAATGAGCAGGGCTTCTGCAAGATCGTGGGCCCTTAAGGATATGATCATCCGGGTGGTGGAGAAC
ATCTACCCCGCAGAGCTCGAGGACTTCTTTCACACACCCCGAAGGTGCAGGAAGTGCAGGTGGTGGGA
GTGAAGGACGATCGATGGGGGAAGAGATTTGTGCTGCATTGGCTGAAGGACGGGAGGAGACCAGC
GTGGAGGAGATAAAAGCTTCTGCAAAGGAAGATCTCTCACTTCAAGATCCGAAGTACATCGTGTTC
GTCACAAACTACCCCTCACCATTTAGGAAAGATCCAGAAATCAAACCTCGAGAGCAGATGGAACGA
CATCTAAATCTG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG239052  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MAYVYVGLRLGRLCAGSSVGLGARAALSRWQEARLQGVRFSSREVDMMVSTPIGGLSYVQGTCKHL
NSKTVGQCLETTAQRVPEREALVVLHEDVRLTFAQLKEEVDKAASGLLSIGLCKGDRLGMMWPNYSYAWV
LMQLATAQAMELEYVLLKVGCKALVFPKQFKTQQYYNVLKQICPEVENAQPGALKSQRLPDLTTVISVD
APLPGTLLLDDEVVAAGSTRQHLDQLQYNQFLSCHDPINIQFTSGTTGSPKGATLSHYNIVNNSNILGE
RLKLHEKTPEQLRMILPNPLYHCLGVSAGTMMCLMYGATLILASPIFNGKKALEAISRERGTFLYGTPT
MFVDILNQPDFSSYDISTMCGGVIAGSPAPPELIRAIINKINMKDLVVAYGTTENSPVTFAHFPEDTVE
QKAEVGRIMPHTEARIMNMEAGTLAKLNTPGELCIRGYCVM LGYWGEQKTEEAVDQDKWYWTGDVAT
MNEQGFCKIVGRSKDMIIRGGENIYPALEDFFHHPKVQEVVGVKDDRMGEEICACIRLKDGEETT
VEEIKAFCKGKISHFKIPKYIVFTNYPLTISGKIQKFKLREQMERHLNL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001288969

**ORF Size:** 1806 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).

**RefSeq:** [NM\\_001288969.1](#), [NP\\_001275898.1](#)

**RefSeq Size:** 2206 bp

**RefSeq ORF:** 1809 bp

**Locus ID:** 80221

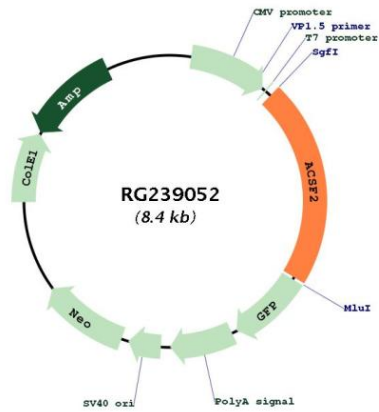
**UniProt ID:** [Q96CM8](#)

**Cytogenetics:** 17q21.33

**MW:** 67.2 kDa

**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 RG239052