

## Product datasheet for **RG204368**

### ACSF2 (NM\_025149) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACSF2 (NM_025149) 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:**

>RG204368 representing NM\_025149  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGTCTACGTCGGGATGCTGCGCCTGGGGAGGCTGTGCGCCGGGAGCTCGGGGTGCTGGGGCCCC  
 GGGCCGCCCTCTCTCGGAGTTGGCAGGAAGCCAGGTTGCAGGGTGTCCGCTTCTCAGTTCCAGAGAGGT  
 GGATCGCATGGTCTCCACGCCCATCGGAGGCTCAGCTACGTTCAAGGGTGCACCAAAAAGCATCTTAAC  
 AGCAAGACTGTGGTCCAGTGCCTGGAGACCACAGCACAGAGGGTCCCAGAACGAGAGGCCTTGGTCGTCC  
 TCCATGAAGACGTCAGGTTGACCTTTGCCAACTCAAGGAGGAGGTGGACAAAGCTGCTTCTGGCCTCT  
 GAGCATTGGCCTCTGCAAAGGTGACCGGCTGGGCATGTGGGGACCTAACTCCTATGCATGGGTGCTCATG  
 CAGTTGGCCACCGCCAGGCGGCATCATTCTGGTGTCTGTGAACCCAGCCTACCAGGCTATGGAAGTGG  
 AGTATGTCCTCAAGAAGGTGGGCTGCAAGGCCCTTGTTCCCAAGCAATCAAGACCCAGCAATACTA  
 CAACGCTCTGAAGCAGATCTGTCCAGAAGTGGAGAATGCCAGCCAGGGGCTTGAAGAGTCAGAGGCTC  
 CCAGATCTGACCACAGTCATCTCGGTGGATGCCCTTTGCCGGGACCCCTGCTCCTGGATGAAGTGGTGG  
 CGGCTGGCAGCACACGGCAGCATCTGGACCAGTCCAATACAACCAGCAGTTCCTGTCCTGCCATGACCC  
 CATCAACATCCAGTTCACCTCGGGGACAACAGGCAGCCCCAAGGGGGCCACCCTCTCCACTACAACATT  
 GTCAACAACCTCAACATTTTAGGAGAGCGCCTGAAACTGCATGAGAAGACACCAGAGCAGTTGCGGATGA  
 TCCTGCCAACCCCTGTACCATTGCTGGGTTCCGTGGCAGGCACAATGATGTGTCTGATGTACGGTGC  
 CACCCTCATCTGGCCTCTCCATCTTCAATGGCAAGAAGGCACTGGAGGCCATCAGCAGAGAGAGAGGC  
 ACCTTCTGTATGGTACCCACAGATGTTCTGGACATTCTGAACCAGCCAGACTTCTCCAGTTATGACA  
 TCTCGACCATGTGTGGAGGTGTCATTGCTGGTCCCCTGCACCTCCAGAGTTGATCCGAGCCATCAACA  
 CAAGATAAATATGAAGGACCTGGTGGTTGCTTATGGAACCAAGAGAAACAGTCCCGTGACATTCCGCGCAC  
 TTCCTGAGGACTGTGGAGCAGAAGGCAAGCGTGGGCAGAATTATGCCTCACACGGAGGCGCGGA  
 TCATGAACATGGAGGCAGGGACGCTGGCAAAGCTGAACACGCCGGGGAGCTGTGCATCCGAGGGTACTG  
 CGTCATGCTGGGCTACTGGGGTGAAGCCTCAGAAGACAGAGGAAGCAGTGGATCAGGACAAGTGGTATTGG  
 ACAGGAGATGTCGCCACAATGAATGAGCAGGGCTTCTGCAAGATCGTGGGCGCTCTAAGGATATGATCA  
 TCCGGGGTGGTGAACAATCTACCCCGCAGAGCTCGAGGACTTCTTTCACACACACCCGAAGGTGCAGGA  
 AGTGCAGGTGGTGGAGTGAAGGACGATCGGATGGGGAAAGATTTGTGCTGCATTCCGCTGAAGGAC  
 GGGGAGGAGACCAGGTGGAGGAGATAAAGCTTTCTGCAAAGGGAAGATCTCTCACTTCAAGATCCGA  
 AGTACATCGTGTGTCACAACTACCCCTCACCATTTCAGGAAAGATCCAGAAATTCAAACCTCGAGA  
 GCAGATGGAACGACATCTAAATCTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG204368 representing NM\_025149  
 Red=Cloning site Green=Tags(s)

MAYVVGMLRLGRLCAGSSGVLGARAALSRWQEARLQGVRFSSREVDVMVSTPIIGGLSYVQGCTKKHLN  
 SKTVVQCLETQAVRPEREALVVLHEDVRLTFAQLKEEVDKAASGLLSIGLCKGDRLGMWGPNSYAWVLM  
 QLATAQAGIILVSNPAYQAMELEYVLKKGCKALVFPKQFKTQQYNNVLKQICPEVENAQPGALKSQR  
 PDLTTVISVDAPLPGTLLLDEVVAAGSTRQHLDLQYNNQFLSCHDPINIQFTSGTTGSPKGATLSHYNI  
 VNNSNILGERLKLHEKTPEQLRMILPNPLYHCLGSVAGTMMCLMYGATLILASPIFNGKKALEAISRERG  
 TFLYGTPTMFVDILNQPDFSSYDIDTMCGGVIAGSPAPPELIRAIINKINMKDLVVAYGTTENSPVTFH  
 FPEDTVEQKAESVGRIMPHTEARIMNMEAGTLAKLNTPGELCIRGYCVMLGYWGEVQKTEEAVDQDKWY  
 TGDVATMNEQGFCKIVGRSKDMIIRGGENIYPAELEDFFHHPKVQEVQVVGKDDRMGEEICACIRLKD  
 GEETTVEEIKAFCKGKISHFKIPKYIVFVTNYPLTISGKIQKFKLREQMERHLNL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_025149

**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\\_025149.3](#), [NP\\_079425.2](#)

**RefSeq Size:** 2205 bp

**RefSeq ORF:** 1848 bp

**Locus ID:** 80221

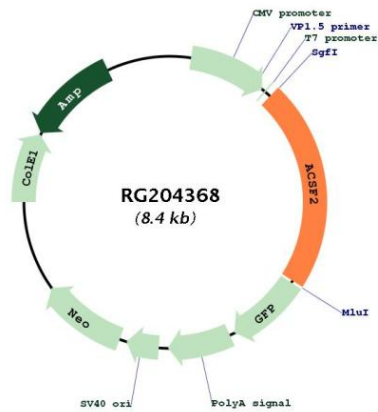
**UniProt ID:** [Q96CM8](#)

**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]

**Product images:**



Circular map for RG204368