

## Product datasheet for **RC234471**

### ACSF3 (NM\_001243279) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACSF3 (NM_001243279) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACSF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234471 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGCCCCATGTGGTCTCACCTTCGGCGCCTGGGCTGCGCCTTGGCGTCTGCCGGCTGGCGCCTG  
 CGAGACACAGAGGAAGTGGTCTTCTGCACACAGCCCCAGTGGCCGCTCGGACAGGAGCGCCCCGGTGT  
 CACCCGTGCCCTGGCCTTTGGGGACAGAATCGCCCTGGTTGACCAGCACGGCCGCCACACGTACAGGGAG  
 CTTTATCCCGCAGCCTTCGCTGTCCCAGGAGATCTGCAGGCTCTGCGGGTGTGTGCGGGGGACCTCC  
 GGGAGGAGAGGGTCTCCTTCTATGCGTAACGATGCCTCTACGTCGTGGCCAGTGGCGTATGGAT  
 GAGTGGCGGTGTGGCAGTCCCCCTACAGGAAGCATCCCGCGGCCAGCTGGAGTATGCATCTGCGAC  
 TCCCAGAGCTCTGTGCTTGGCAGCCAGGAGTACCTGGAGCTCTGAGCCGGTGGTCAGGAAGCTGG  
 GGGTCCCCTGCTGCCGCTCACACCAGCCATCTACACTGGAGCAGTAGAGGAACCGGCAGAGGTCCCCTG  
 CCCAGAGCAGGGATGGAGGAACAAGGGCGCCATGATCATCTACACCAGTGGGACCAGGGGAGGCCAAG  
 GCGGTGCTGAGCAGCACCAAAACATCAGGGCTGTGGTACCAGGGCTGGTCCACAAGTGGGCATGGACCA  
 AAGACGACGTGATCCTCCACGTGCTCCCCTGCACCACGTCCATGGTGTGGTCAACGCGCTGCTCTGTCC  
 TCTCTGGGTGGGACCACTGTGTGATGATGCCTGAGTTCAGCCCTCAGCAGTTTGGGAAAAGTTCTTA  
 AGTTCTGAAACGCCGCGGATCAATGTCTTTATGGCAGTGCCTACAATATACACCAAGCTGATGGAGTACT  
 ACGACAGGCATTTTACCCAGCCGACGCCAGGATTTCTTGCCTGCAATTTGGAAGAAAAAATAGGCT  
 GATGGTCTCAGGCTCAGTGCCTGCCCTCCCAGTGTGGAGAAGTGAAGAACATCACGGCCACACC  
 CTGTGGAGCGGTATGGCATGACCGAGATCGGCATGGCTCTGTCCGGGCCCTGACCACTGCCGTGCGCC  
 TGCCAGTTCCGTGGGGACCCCACTGCCTGGAGTACAGGTGCGCATTGTCTCAGAAAACCCACAGAGGGA  
 AGCTGTCTTACACCATCCACGCAGAGGGAGACGAGAGGGGGACCAAGGTGACCCAGGGTTTGAAGAA  
 AAGGAGGGGAGCTGCTGGTGGGGACCTCCGTGTTTCGAGAATACTGGAATAAACCAGAAGAACTA  
 AGAGTGCATTCACCTGGATGGCTGGTTAAGACAGGGGACACCGTGGTGTAAAGGATGGCCAGTACTG  
 GATCCGAGGCCGACCTCAGTGGACATCATCAAGACTGGAGGCTACAAGTGCAGCGCCCTGGAGGTGGAG  
 TGGCACCTGTGGCCACCCAGCATCACAGATGTGGCTGTGATTGGAGTCCGGATATGACATGGGGCC  
 AGCGGGTCACTGTGTGGTACCCTCCGAGAAGGACACTACTGTCCACAGGGAGCTCAAAGATGGGC  
 CAGAAATGCTCTGCCCGTACGCGGTGCCCTCGGAGCTGGTGTGGTGGAGGAGATCCCGCGGAACCA  
 ATGGGCAAGATTGACAAGAAGCGCTCATCAGGCACTTCCACCCCTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234471 protein sequence  
 Red=Cloning site Green=Tags(s)

MLPHVVLTFRRLGCALASCRLAPARHRGSGLLHTAPVARSDRSAPVFRALAFGDRIALVDQHRHTYRE  
 LYRSLRLSQEICRLCGCVGGDLREERVSFLCANDASYVVAQWASWMSGVAVPLYRKHPAAQLEYVICD  
 SQSSVVLASQEYLELLSPVVRKLGVPLLPLTPAIYTGAVEEPAEVPVPEQGWNRNGAMIYYTSGTGRPK  
 GVLSTHQNIRAVVTGLVHKWAWTKDDVILHVLPLHHVHGYYNALLCPLWVGATCVMPEFSPQQVWEKFL  
 SSETPRINVMFVPTIYTKLMEYYDRHFTQPHAQDFLRVCEEKIRLMVSGSAALPLPVLEKWKNTGHT  
 LLERYGMTEIGMALSGLPTTAVRLPGSVGTPLPGVQVRIVSENQREACSYTIIHAEGDERGKVTGPGFEE  
 KEGELLVRGSPVVFREYWNKPEETKSAFTLDGWFKTGDVVFKDGQYWIIRGRTSVDIIKTGGYKVSALVEV  
 WHLLAHPSTIDVAVIGVPDMTWGQRVTAVVTLREGHSLSHRELKEWARNVLAAPYAVPSELVLEVEIPRNG  
 MGKIDKKALIRHFHPS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8100\\_c09.zip](https://cdn.origene.com/chromatograms/mk8100_c09.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001243279

**ORF Size:** 1728 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\\_001243279.3](#)

**RefSeq Size:** 3751 bp

**RefSeq ORF:** 1731 bp

**Locus ID:** 197322

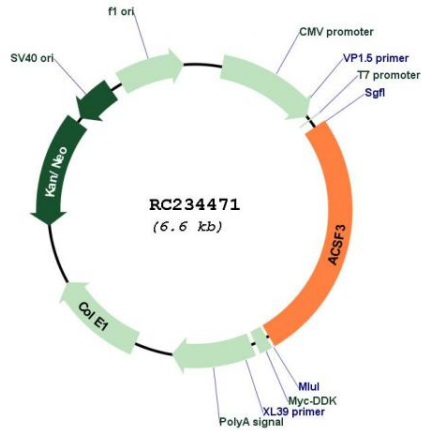
**UniProt ID:** [Q4G176](#)

**Cytogenetics:** 16q24.3

**MW:** 64.1 kDa

**Gene Summary:** This gene encodes a member of the acyl-CoA synthetase family of enzymes that activate fatty acids by catalyzing the formation of a thioester linkage between fatty acids and coenzyme A. The encoded protein is localized to mitochondria, has high specificity for malonate and methylmalonate and possesses malonyl-CoA synthetase activity. Mutations in this gene are a cause of combined malonic and methylmalonic aciduria. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Sep 2013]

**Product images:**



Circular map for RC234471