

## Product datasheet for **RC237368**

### ACSF3 (NM\_001284316) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACSF3 (NM_001284316) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACSF3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237368 representing NM_001284316 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGATGCCTGAGTTCAGCCCTCAGCAGGTTTGGGAAAAGTTCTTAAGTTCTGAAACGCCGCGGATCAATG  
TCTTTATGGCAGTGCCTACAATATACCAAGCTGATGGAGTACTACGACAGGCATTTTACCCAGCCGCA  
CGCCCAGGATTTCTTGCCTGCAGTTTGTGAAGAAAAATTAGGCTGATGGTCTCAGGCTCAGCTGCCCTG  
CCCTCCAGTGCTGGAGAAGTGAAGAACATCACGGGCCACACCCTGCTGGAGCGGTATGGCATGACCG  
AGATCGGCATGGCTCTGTCCGGGCCCTGACCACTGCCGTGCGCCTGCCAGGTTCCGTGGGGACCCCACT  
GCCTGGAGTACAGGTGCGCATTGTCTCAGAAAACCCACAGAGGGAAGCCTGCTCCTACACCATCCACGCA  
GAGGGAGACGAGAGGGGACCAAGGTGACCCAGGTTTGAAGAAAAGGAGGGGAGCTGCTGGTGAGGG  
GACCTCCGTGTTTCGAGAATACTGGAATAAACAGAGAAGAACTAAGAGTGCATTACCCCTGGATGGCTG  
GTTTAAGACAGGGGACACCGTGGTGTAAAGGATGGCCAGTACTGGATCCGAGGCCGACCTCAGTGGAC  
ATCATCAAGACTGGAGGCTACAAGTCAAGCCCTGGAGGTGGAGTGGCACCTGCTGGCCACCCACGCA  
TCACAGATGTGGCTGTGATTGGAGTTCCGATATGACATGGGGCCAGCGGTCACTGCTGTGGTGACCT  
CCGAGAAGGACACTCACTGTCCACAGGGAGCTCAAAGAGTGGGCCAGAAATGTCCTGGCCCCGTACGCG  
GTGCCCTCGAGCTGGTGTGGTGGAGGAGATCCCGCGGAACCAGATGGGCAAGATTGACAAGAAGCGC  
TCATCAGGCACTTCCACCCCTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC237368 representing NM\_001284316  
Red=Cloning site Green=Tags(s)

MMPEFSPQQVWEKFLSSETPRINVFMAVPTIYTKLMEYYDRHFTQPHAQDFLRVCEEKIRLMVSGSAAL  
PLPVLEKWKNIHTLLERYGMTEIGMALSGPLTTAVRLPGSVGTPLPGVQVRISEN PQREACSYTIHA  
EGDERGTKVTPGFEEKEGELLVRGPSVFREYWNKPEETKSAFTLDGWFKTGDTTVFKDGGYWIRGRTSVD  
IIKTGGYKVSALVEVHLLAHPISITDVAVIGVDPMTWQQRVTAVVTLREGHSLSHRELKEWARNVLAPYA  
VPSELVLEEIPRNQMGKIDKKALIRHFHPS

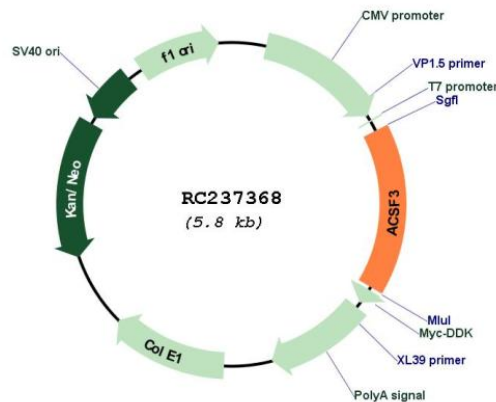
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001284316

<b>ORF Size:</b>	933 bp
<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_001284316.2</a>
<b>RefSeq Size:</b>	2888 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	197322
<b>Cytogenetics:</b>	16q24.3
<b>MW:</b>	35.6 kDa
<b>Gene Summary:</b>	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]