

Product datasheet for **RG234471**

ACSF3 (NM_001243279) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSF3 (NM_001243279) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACSF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234471 representing NM_001243279
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGCCCCATGTGGTCTCACCTTCCGGCGCCTGGGCTGCGCCTTGGCGTCTGCCGGCTGGCGCCTG
 CGAGACACAGAGGAAGTGGTCTTCTGCACACAGCCCCAGTGGCCCGCTCGGACAGGAGCGCCCCGGTGT
 CACCCGTGCCCTGGCCTTTGGGGACAGAATCGCCCTGGTTGACCAGCACGGCCGCCACACGTACAGGGAG
 CTTTATCCCGCAGCCTTCGCTGTCCCAGGAGATCTGCAGGCTCTGCGGGTGTGTGCGGGGGACCTCC
 GGGAGGAGAGGGTCTCCTTCTATGCGTAACGATGCCTCTACGTCGTGGCCAGTGGCGTATGGAT
 GAGTGGCGGTGTGGCAGTCCCCCTACAGGAAGCATCCCGCGGCCAGCTGGAGTATGCATCTGCGAC
 TCCCAGAGCTCTGTGCTTCCAGCCAGGAGTACCTGGAGCTCTGAGCCCGTGGTCAGGAAGCTGG
 GGGTCCCCTGCTGCCGCTCACACCAGCCATCTACACTGGAGCAGTAGAGGAACCGGCAGAGGTCCCCT
 CCCAGAGCAGGGATGGAGGAACAAGGGCGCCATGATCATCTACACAGTGGGACCAGGGGAGGCCAAG
 GCGGTGCTGAGCAGCACCAAAACATCAGGGCTGTGGTACCAGGGCTGGTCCACAAGTGGGCATGGACCA
 AAGACGACGTGATCCTCCACGTGCTCCCGCTGCACCACGTCCATGGTGTGGTCAACGCGCTGCTCTGTCC
 TCTCTGGGTGGGAGCCACCTGTGTGATGATGCCTGAGTTCAGCCCTCAGCAGTTTGGGAAAAGTTCTTA
 AGTTCTGAAACGCCCGGATCAATGTCTTTATGGCAGTGCCTACAATATACACCAAGCTGATGGAGTACT
 ACGACAGGCATTTTACCCAGCCGACGCCAGGATTTCTTGCCTGCAATTTGGAAGAAAAATAGGCT
 GATGGTCTCAGGCTCAGTGCCTGCCCTCCCAGTGTGGAGAAGTGAAGAACATCACGGCCACACC
 CTGCTGGAGCGGTATGGCATGACCGAGATCGGCATGGCTCTGTCCGGGCCCTGACCACTGCCGTGCC
 TGCCAGTTCCGTGGGGACCCACTGCCCTGGAGTACAGGTGCGCATTGTCTCAGAAAACCCACAGAGGA
 AGCTGCTCTACACCATCCACGCAGAGGGAGACGAGAGGGGGACCAAGGTGACCCAGGGTTTGAAGAA
 AAGGAGGGGAGCTGCTGGTGGGGACCTCCGTGTTTCGAGAATACTGGAATAAACCAGAAGAACTA
 AGAGTGCATTCACCTGGATGGCTGTTTAAAGACAGGGGACACCGTGGTGTAAAGGATGGCCAGTACTG
 GATCCGAGGCCGACCTCAGTGGACATCATCAAGACTGGAGGCTACAAGGTGACGCGCCCTGGAGGTGGAG
 TGGCACCTGTGGCCACCCAGCATCACAGATGTGGCTGTGATTGGAGTCCGGATATGACATGGGGCC
 AGCGGGTCACTGCTGTGGTGACCCTCCGAGAAGGACACTACTGTCCACAGGGAGCTCAAAGAGTGGGC
 CAGAAATGCTCCTGGCCCCGTACGCGGTGCCCTCGGAGCTGGTGTGGTGGAGGAGATCCCGCGGAACCG
 ATGGGCAAGATTGACAAGAAGCGCTCATCAGGCATTCCACCCCTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234471 representing NM_001243279
 Red=Cloning site Green=Tags(s)

MLPHVVLTFRRLGCALASCRLLAPARHRGSGLLHTAPVARSDRSAPVFTRALAFGDRIALVDQHRHTYRE
 LYSRSLRLSQEICRLCGCVGGDLREERVSFLCANDASYVVAQWASWMSGVAVPLYRKHAAQLEYVICD
 SQSSVVLASQEYLELLSPVVRKLGVPLLPLTPAIYTGAVEEPAEVPVPEQGWNRKGAMIIYTSGTTGRPK
 GVLSTHQNIRAVVTGLVHKWAWTKDDVILHVLPLHHVHGVVNALLCPLWVGATCVMPEFSPQQVWEKFL
 SSETPRINVMFVPTIYTKLMEYYDRHFTQPHAQDFLRVCEEKIRLMVSGSAALPLPVLEKWKNTGHT
 LLERYGMTEIGMALSGPLTTAVRLPGSVGTPLPGVQVRIVSENPQREACSYTIIHAEGDERGKTVPGFEE
 KEGELLVRGSPVFREYWNKPEETKSAFTLDGWFKTGDVVFVKDQYWIWIRGRTSVDIIKTGGYKVSALVEV
 WHLLAHPSTIDVAVIGVPMWGTGQRVTA VVTLREGHSLSHRELKEWARNVLAPYAVPSELV LVEEIPRNQ
 MGKIDKKALIRHFHPS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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
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]