

Product datasheet for **RG238939**

ACSF2 (NM_001288970) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSF2 (NM_001288970) 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:

>RG238939 representing NM_001288970.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTGTCTACGTCGGGATGCTGCGCCTGGGGAGGCTGTGCGCCGGGAGCTCGGGGTGCTGGGGCC
CGGGCCGCCCTCTCTCGGAGTTGGCAGGAAGCCAGGTTGCAGGGTGTCCGCTTCCAGTCCAGAGAG
GTGGATCGCATGGTCTCCACGCCATCGGAGGCCCTCAGCTACGTTTCAGGGGTGCACCAAAAAGCATCTT
AACAGCAAGACTGTGGCCAGTGCTGGAGACCACAGCACAGAGGTCACCAAGAGAGGCTCCAGAACGAGAGCCTTGTC
GTCCTCCATGAAGACGTGAGTTGACCTTTGCCAACTCAAGGAGGAGGTGTCTGTGAACCCAGCCTAC
CAGGCTATGGAAGTGGAGTATGCTCAAGAAGTGGGCTGCAAGGCCCTGTGTCCCCAAGCAATTC
AAGACCCAGCAATACTACAACGCTCTGAAGCAGATCTGTCCAGAAGTGGAGAATGCCAGCCAGGGGCC
TTGAAGAGTCAGAGGCTCCAGATCTGACCACAGTCATCTCGGTGGATGCCCTTTGCCGGGACCCTG
CTCCTGGATGAAGTGGTGGCGGCTGGCAGCACACGGCAGCATCTGGACCAGCTCCAATAACAACAGCAG
TTCTGTCTGCCATGACCCATCAACATCCAGTTCACCTCGGGACAACAGGCAGCCCCAAGGGGGCC
ACCTCTCCCACTACAACATTGTCAACAACCTCAACATTTTAGGAGAGCGCTGAAACTGCATGAGAAG
ACACCAGAGCAGTTGCGGATGATCCTGCCAACCCCTGTACCATTGCCTGGGTTCCGTGGCAGGCACA
ATGATGTGTCTGATGTACGGTGCCACCCTCATCTGGCCTCTCCCATCTTCAATGGCAAGAAGGCACTG
GAGGCCATCAGCAGAGAGAGAGGCACCTTCTGTATGGTACCCCCACGATGTTCTGTGGACATTCTGAAC
CAGCCAGACTTCTCCAGTTATGACATCTCGACCATGTGTGGAGGTGTCATTGCTGGGTCCCCTGCACCT
CCAGAGTTGATCCGAGCCATCATCAACAAGATAAATATGAAGGACCTGGTGGTTGCTTATGGAACCACA
GAGAATCAGTCCCGTGACATTCGCGCACTCCCTGAGGACACTGTGGAGCAGAAGGCAGAAAGCGTGGGC
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GAAGCAGTGGATCAGGACAAGTGGTATTGGACAGGAGATGTCGCCACAATGAATGAGCAGGGCTTCTGC
AAGATCGTGGCCGCTCTAAGGATATGATCATCCGGGGTGGTGAACAATCTACCCCGCAGAGCTCGAG
GACTTCTTTCACACACACCCGAAGGTGCAGGAAGTGCAGGTGGTGGGAGTGAAGGACGATCGGATGGGG
GAAGAGATTTGCTCTGCATTGCGCTGAAGGACGGGGAGGAGACCAGGTGGAGGAGATAAAAGCTTTC
TGCAAAGGAAGATCTCTCACTTCAAGATTCGAAAGTACATCGTGTGTTGTACAACTACCCCTCACC
ATTTCAGGAAAGATCCAGAAATCAAACCTCGAGAGCAGATGGAACGACATCTAAATCTG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238939
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MAVYVGMRLRLGRLCAGSSVGLGARAALSRWQEARLQGVRFSSREVDVMVSTPIGGLSYVQGCTKKHL
NSKTVGQCLETTAQRVPEREALVVLHEDVRLTFAQLKEEVSVPAYQAMELEYVLKKGCKALVFPKQF
KTQYYNVLKQICPEVENAQPGALKSQRLPDLTTVISVDAPLPGTLLLDEVVAAGSTRQHLDQLQYNQQ
FLSCHDPINIQTSGTTGSPKGATLSHYNIVNNSNILGERLKLHEKTPEQLRMILPNPLYHCLGSVAGT
MMCLMYGATLILASPIFNGKKALEAISRERGTFLYGTPTMFVDILNQPDPSSYDIDSTMCGGVIAGSPAP
PELIRAIINKINMKDLVVAYGTTENSPVTFAHFPEDTVEQKAESVGRIMPHTEARIMNMEAGTLAKLNT
PGELCIRGYCVMLGYWGEPQKTEEAVDQDKWYWTGDVATMNEQGFCKIVGRSKDMIIRGGENIYPAELE
DFFHTHPKVQEVQVGVKDDRMGEEICACIRLKDGEETTVEEIKAFCKGKISHFKIPKYIVFVTNYPLT
ISGKIQFKLREQMERHLNL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMHFKSAIHPHILQNGGPMFA
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```

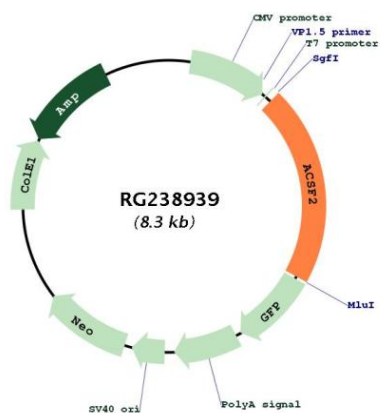
Restriction Sites:

SgfI-MluI

Cloning Scheme:


- ACCN:** NM_001288970
- ORF Size:** 1716 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_001288970.1](#), [NP_001275899.1](#)
- RefSeq Size:** 2116 bp
- RefSeq ORF:** 1719 bp
- Locus ID:** 80221
- UniProt ID:** [Q96CM8](#)
- Cytogenetics:** 17q21.33
- MW:** 64.1 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 RG238939