

Product datasheet for **RG234470**

ACSS1 (NM_001252677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSS1 (NM_001252677) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACSS1
Synonyms:	ACAS2L; ACECS1; AceCS2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234470 representing NM_001252677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGCGCACCCCTGGGCCGCGCGTGGGAGGCTGCTGGGCAGCCTGCGAGGGCTCTCGGGGCAGC
 CCGCGCGGCCCGCTGCGGGGTGAGCGCGCCGCGCAGGGCGGCCCTCGGGACCCTCGGGCAGCGCTCCCGC
 AGTTGCAGCAGCAGCAGCACAGCCAGGCTCGTATCCCGCGCTGAGTGCACAGGCAGCCCGGAGCCGGCC
 GCCTTCTGGGGCCTCTGGCGCGGGACACTCTCGTGTGGGACACCCCTACCACACCGTCTGGGACTGCG
 ACTTCAGCACTGGCAAGATCGGCTGGTTCTGGGAGGCCAGTTAAATGTCTCTGTCAACTGCTTGGACCA
 GCATGTTCCGAAGTCCCCGAGAGCGTTGCTTTGATCTGGGAGCGCGATGAGCCTGGAACGGAAGTGAAG
 ATCACCTACAGGAACTACTGGAGACCAGTGCCCGCTGGCCAACACGCTGAAGAGGCATGGAGTCCACC
 GTGGGGACCGTGTGCCATCTACATGCCCGTGTCCCATTTGGCTGTGGCAGCAATGCTGGCCTGTGCCAG
 GATCGGAGCTGTCCACACAGTCATCTTTGCTGGCTTCAGTGCAGAGTCCTTGGCTGGGAGGATCAATGAT
 GCCAAGTCAAGGTGTTATCACCTTCAACCAAGGACTCCGGGGTGGGCGCGTGGTGGAGCTGAAGAAAA
 TAGTGGATGAGGCTGTGAAGCACTGCCCCACCGTGCAGCATGTCCTGGTGGCTCACAGGACAGACAACAA
 GGTCCACATGGGGGATCTGGACGTCCCGCTGGAGCAGGAAATGGCCAAGGAGGACCCTGTTTGCGCCCA
 GAGAGCATGGGCAGTGAAGACATGCTCTTCATGCTGTACACCTCAGGGAGCACCGGAATGCCAAGGGCA
 TCGTCCATACCCAGGCAGGCTACCTGCTCTATGCCGCCCTGACTCACAAGCTTGTGTTTGACCACCAGCC
 AGGTGACATCTTTGGCTGTGTGGCCGACATCGGTTGGATTACAGGACACAGCTACGTGGTGTATGGGCC
 CTCTGCAATGGTCCACCAGCGTCTTTTTGAGAGCACCCAGTTTATCCAATGCTGGTGGTACTGGG
 AGACAGTAGAGAGTTGAAGATCAATCAGTTCTATGGCGCCCAACGGCTGTCCGGCTGTGCTGAATA
 CGGTGATGCCTGGGTGAAGAAGTATGATCGCTCCTCCCTGCGGACCCTGGGGTCACTGGGAGAGCCCATC
 AACTGTGAGGCCCTGGGAGTGGCTTACAGGGTGGTGGGGACAGCAGGTGCACGCTGGTGGACACCTGGT
 GGCAGACAGAAACAGGTGGCATCTGCATCGCACCCAGGCCCTCGGAAGAAGGGGCGGAAATCCTCCCTGC
 CATGGCGATGAGGCCCTTCTTTGGCATCGTCCCGTCTCATGGATGAGAAGGGCAGCGTCTGGAGGGC
 AGCAACGCTCTCCGGGGCCCTGTGCATCTCCAGGCCTGGCCGGGCATGGCCAGGACCATCTATGGCGACC
 ACCAGCGATTTGTGGACGCTACTTCAAGGCCTACCCAGGCTATTACTTCACTGGAGACGGGGCTTACCG
 AACTGAGGGCGGCTATTACCAGATCACAGGGCGGATGGATGATGCATCAACATACTCCAATAGTTGGG
 TTCTTCAGGAAGCTATTAGAACTCAGGTGACTTGTAGAGCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234470 representing NM_001252677
 Red=Cloning site Green=Tags(s)

MAARTLGRGVGRLLGSLRGLSGQPAPPCGVSAPRRAASGPSGSAPAVAAAAAQPGSYPALSAQAAREPA
 AFWGPLARDTLVWDPYHTVWDCDFSTGKIGWFLGGQLNYSVNCLDQHVRSPEVALIWERDEPGTEVR
 ITYRELLETTCLANTLKRHGVHRGDRVAIYMPVSPLAVAAMLACARIGAVHTVIFAGFSAESLAGRIND
 AKCKVVIITFNQGLRGRVVELKKIVDEAVKHCPTVQHVLVAHRTDNKVMGDLVPLEQEMAKEDPVCAP
 ESMGSEDMLFMLYTSGSTGMPKIVHTQAGYLLYAALTHKLVFDHQPDIIFGCVADIGWITGHSYVVYGP
 LCNGATSVLFESTPVYPNAGRYWETVERLKINQFYGAPTAVRLLLKYGDWVKKYDRSSLRTLGSVGEPI
 NCEAWEWLHRVVGDSRCTLVDTWWQTETGGICIAAPRSEEGAEILPAMAMRPFPGIIVPLMDEKGSVVEG
 SNVSGALCISQAWPGMARTIYGDHQRFDAYFKAYPGYFYGDAYRTEGGYQITGRMDDVINILQIVG
 FFREAIRNSGDILLEH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001252677

ORF Size: 1725 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_001252677.1](#), [NP_001239606.1](#)

RefSeq Size: 2448 bp

RefSeq ORF: 1728 bp

Locus ID: 84532

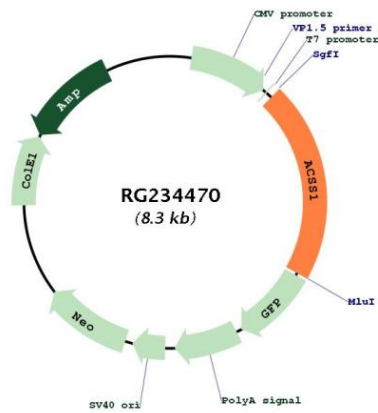
UniProt ID: [Q9NUB1](#)

Cytogenetics: 20p11.21

Protein Pathways: Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism

Gene Summary: This gene encodes a mitochondrial acetyl-CoA synthetase enzyme. A similar protein in mice plays an important role in the tricarboxylic acid cycle by catalyzing the conversion of acetate to acetyl CoA. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG234470