

Product datasheet for **RG232978**

ACSS1 (NM_001252676) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSS1 (NM_001252676) 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:

>RG232978 representing NM_001252676
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCGCCGAAAGGAAAGACAACCTTGGGATCGCTTCCACTTCTCCACTTCGCACCGCATGGCCGGG
 AACTACTGGAGACCACGTGCCGCTGGCCAACACGCTGAAGAGGCATGGAGTCCACCGTGGGACCGTGT
 TGCCATCTACATGCCCGTGTCCCATTTGGCTGTGGCAGCAATGCTGGCCTGTGCCAGGATCGGAGCTGTC
 CACACAGTCATCTTTGCTGGCTTCACTGAGAGTCTTGGCTGGGAGGATCAATGATGCCAAGTGAAGG
 TGGTTATCACCTTCAACCAAGGACTCCGGGGTGGGCGCGTGGTGGAGCTGAAGAAAATAGTGGATGAGGC
 TGTGAAGCACTGCCCCACCGTGCAGCATGTCTGGTGGCTCACAGGACAGACAACAAGGTCCACATGGGG
 GATCTGGAGCTCCCGCTGGAGCAGGAAATGGCCAAGGAGGACCCTGTTTGCGCCCCAGAGAGCATGGGCA
 GTGAGGACATGCTTTCATGCTGTACACCTCAGGAGCACCAGGAAATGCCAAGGGCATCGTCCATACCCA
 GGCAGGCTACCTGCTCTATGCCGCCCTGACTCACAAAGCTTGTGTTGACCACCAGCCAGGTGACATCTTT
 GGCTGTGTGGCCGACATCGGTTGGATTACAGGACACAGCTACGTGGTGTATGGGCCCTCTCTGCAATGGTG
 CCACCAGCGTCTTTTTGAGAGCACCCAGTTTATCCCAATGCTGGTCCGTAAGTGGGAGACAGTAGAGAG
 GTTGAAGATCAATCAGTTCTATGGCGCCCAACGGCTGTCCGGCTGTTGCTGAAATACGGTGTGCTCGTGG
 GTGAAGAAGTATGATCGCTCCTCCTGCGGACCCTGGGGTCAAGTGGGAGAGCCCACTCAACTGTGAGGCC
 GGGAGTGGCTTACAGGGTGGTGGGGGACAGCAGGTGCACGCTGGTGGACACCTGGTGGCAGACAGAAAAC
 AGGTGGCATCTGCATCGCACCACGGCCCTCGGAAGAAGGGGCGGAAATCCTCCTGCCATGGCGATGAGG
 CCCTTCTTTGGCATCGTCCCGTCTCATGGATGAGAAGGGCAGCGTCTGGAGGGCAGCAACGTCTCCG
 GGGCCCTGTGCATCTCCAGGCCCTGGCCGGGATGGCCAGGACCATCTATGGCAGCACCAGCGATTTGT
 GGACGCCACTTCAAGGCCTACCCAGGCTATTACTTCACTGGAGACGGGGCTTACCGAACTGAGGGCGGC
 TATTACCAGATCACAGGGCGGATGGATGATGTCATCAACATCAGTGGCCACCGGCTGGGGACCGCAGAGA
 TTGAGGACGCCATCGCCGACCACCCTGCAGTACCAGAAAGTGTGTCATTGGCTACCCCCACGACATCAA
 AGGAGAAGCTGCCTTTGCCTTATTGTGGTGAAGATAGTGGGGTACTCAGATGTGGTGGTGCAGGAG
 CTCAAGTCCATGGTGGCCACCAAGATCGCCAAATATGCTGTGCCTGATGAGATCCTGGTGGTGAACGTC
 TTCCAAAACCAGGTCTGGGAAGTTCATGCGGCGGCTCCTGAGGAAGATCATCACTAGTGGGCCAGGA
 GCTGGGAGACACTACCACCTGGAGGACCCAGCATCATCGCAGAGATCCTGAGTGTCTACCAGAAGTGC
 AAGGACAAGCAGGCTGTGCTAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232978 representing NM_001252676
 Red=Cloning site Green=Tags(s)

MRRRKERQPWDRFHLHFAPHGRELLETTCLRLANTLKRHGVHRGDRVAIYMPVSLAVAAMLACARIGAV
 HTVIFAGFSAESLAGRINDAKCKVVITFNQGLRGGRVVELKKIVDEAVKHCPVQHVLVAHRDNDKVMHG
 DLDVPLEQEMAKEDPVCAPESMGSEDMLFMLYTSGSTGMPKGI VHTQAGYLLYAALTHKL VFDHQPGDIF
 GCVADIGWITGHSYVVYGPLCNGATSVLFESTPVYPNAGRYWETVERLKNQFYGAPTAVRLLLKYGDW
 VKKYDRSSLRTLGSVGEPI NCEAWEWLHRVVGDSRCTLVDTWWQTETGGICIA PRPSEEGAEILPAMAMR
 PFFGIVPVLMDKGSVVEGSNVSGALCISQAWPGMARTIYGDHQRFDAYFKAYPGYYFTGDGAYRTEGG
 YYQITGRMDDVINISGHLGTAEIEDAIADHPAVPESAVIGYPHDIKGEAAFAFIVVKDSAGDSV VVQK
 LKSMVATKIAKYAVPDEILVVKRLPKTRSGKVMRRLLRKIITSEAQELGDTTTLTLEDP SIIAEILSVYQK
 KDKQAAAK

TRTRPLE – GFP Tag – V

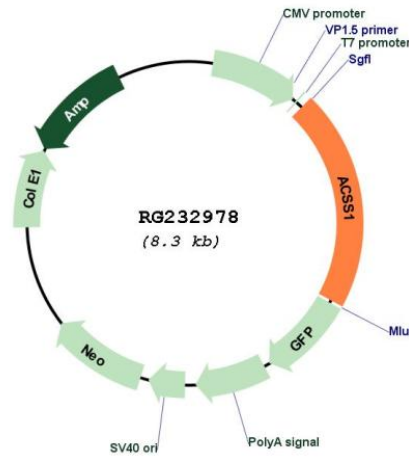
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001252676

ORF Size: 1704 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_001252676.1 , NP_001239605.1
RefSeq Size:	3519 bp
RefSeq ORF:	1707 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]