

## Product datasheet for **RG206311**

### ACSS1 (NM\_032501) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACSS1 (NM_032501) 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)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RG206311 representing NM\_032501  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGCGCGCACCCCTGGGCCGCGCGTGGGAGGCTGCTGGGCAGCCTGCGAGGGCTCTCGGGGCAGC  
 CCGCGCGGCCCGCTGCGGGGTGAGCGCCCGCGCAGGGCGGCCCTCGGGACCCTCGGGCAGCGCTCCCGC  
 AGTTGCAGCAGCAGCAGCACAGCCAGGCTCGTATCCCGCGCTGAGTGCACAGGCAGCCCGGAGCCGGCC  
 GCCTTCTGGGGCCTCTGGCGCGGGACACTCTCGTGTGGGACACCCCTACCACACCGTCTGGGACTGCG  
 ACTTCAGCACTGGCAAGATCGGCTGGTTCTGGGAGGCCAGTTAAATGTCTCTGTCAACTGCTTGGACCA  
 GCATGTTCCGAAGTCCCCGAGAGCGTTGCTTTGATCTGGGAGCGCGATGAGCCTGGAACGGAAGTGAGG  
 ATCACCTACAGGGAAGTACTGGAGACCAGTGCCGCTGGCCAACACGCTGAAGAGGCATGGAGTCCACC  
 GTGGGGACCGTGTGCCATCTACATGCCCGTGTCCCATTTGGCTGTGGCAGCAATGCTGGCCTGTGCCAG  
 GATCGGAGCTGTCCACACAGTCATCTTTGCTGGCTTCAGTGGGAGTCCCTGGCTGGGAGGATCAATGAT  
 GCCAAGTCAAGGTGTTATCACCTTCAACCAAGGACTCCGGGGTGGGCGCGTGGTGGAGCTGAAGAAAA  
 TAGTGGATGAGGCTGTGAAGCACTGCCCCACCGTGCAGCATGTCCTGGTGGCTCACAGGACAGACAA  
 GGTCCACATGGGGGATCTGGACGTCCCGCTGGAGCAGGAAATGGCCAAGGAGGACCCTGTTTGCGCCCA  
 GAGAGCATGGGCAGTGGGACATGCTCTTCATGCTGTACACCTCAGGGAGCACCGGAATGCCAAGGGCA  
 TCGTCCATACCCAGGCAGGCTACCTGCTCTATGCCGCCCTGACTCACAAGCTTGTGTTTGACCACCAGCC  
 AGGTGACATCTTTGGCTGTGTGGCCGACATCGGTTGGATTACAGGACACAGCTACGTGGTGTATGGCCCT  
 CTCTGCAATGGTCCACCAGCGTCTTTTTGAGAGCACCCAGTTTATCCCAATGCTGGTCGGTACTGGG  
 AGACAGTAGAGAGGTTGAAGATCAATCAGTTCTATGGCGCCCAACGGCTGTCCGGCTGTTGCTGAAATA  
 CGGTGATGCCTGGGTGAAGAAGTATGATCGCTCCCTCCCTGCGGACCCTGGGGTCACTGGGAGAGCCCATC  
 AACTGTGAGGCCTGGGAGTGGCTTACAGGGTGGTGGGGACAGCAGGTGCACGCTGGTGGACACCTGGT  
 GGCAGACAGAAACAGGTGGCATCTGCATCGCACACCAGGCCCTCGGAAGAAGGGGCGGAAATCCTCCCTGC  
 CATGGCGATGAGGCCCTTCTTTGGCATCGTCCCGTCTCATGGATGAGAAGGGCAGCGTCATGGAGGGC  
 AGCAACGCTCTCCGGGGCCCTGTGCATCTCCAGGCCTGGCCGGGCATGGCCAGGACCATCTATGGCGACC  
 ACCAGCGATTTGTGGACGCTACTTCAAGGCCTACCCAGGCTATTACTTCACTGGAGACGGGGCTTACCG  
 AACTGAGGGCGGCTATTACCAGATCACAGGGCGGATGGATGATGTCATCAACATCAGTGGCCACCGGCTG  
 GGGACCGCAGAGATTGAGGACGCCATCGCCGACCACCCTGCAGTACCAGAAAGTGTGTCATTGGCTACC  
 CCCACGACATCAAAGGAGAAGCTGCCTTTGCCTTCATTGTGGTGAAGATAGTGGGGTACTCAGATGT  
 GGTGGTGCAGGAGCTCAAGTCCATGGTGGCCACCAAGATCGCCAAATATGCTGTGCTGATGAGATCCTG  
 GTGGTGAACGCTTCCAAAAACAGGCTCTGGGAAGGTCATGCGGCGGCTCCTGAGGAAGATCATCACTA  
 GTGAGGCCAGGAGCTGGGAGACACTACCACCTTGGAGGACCCAGCATCATCGCAGAGATCCTGAGTGT  
 CTACCAGAAGTGAAGGACAAGCAGGCTGCTGCTAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206311 representing NM\_032501  
 Red=Cloning site Green=Tags(s)

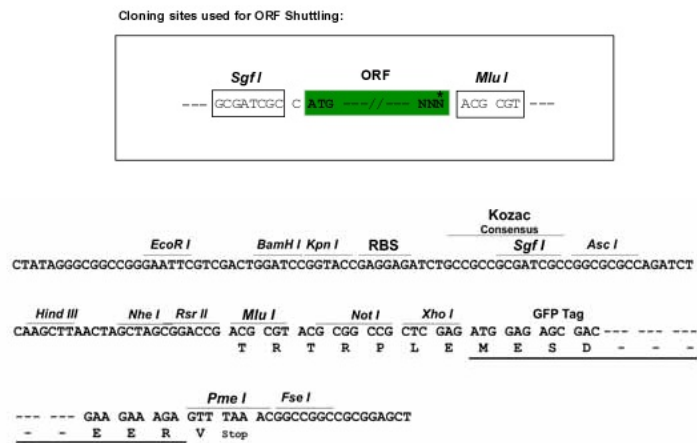
MAARTLGRGVGRLLGSLRGLSGQPAPPPCGVSAPRRAASGPSGSAPAVAAAAAQPGRSYPALSAQAAREPA  
 AFWGPLARDTLVWDTPTYHTVWDCDFSTGKIGWFLGGQLNVSVNCLDQHVRKSPESVALIWERDEPGTEVR  
 ITYRELLETTCLRLANTLKRHGVHRGDRVAIYMPVSPPLAVAAAMLACARIGAVHTVIFAGFSAESLAGRIND  
 AKCKVVIITFNQGLRGGRRVVELKKIVDEAVKHCPVQHVLAHRTDNKVMGDLDPLEQEMAKEDPVCAP  
 ESMGSEDMLFMLYTSGSTGMPKGI VHTQAGYLLYAALTHKLVFDHQPDI FGCVADIGWITGHSYVYVGP  
 LCNGATSVLFESTPVYPNAGRYWETVERLKNQFYGAPTAVRLLLKYGDVWKKYDRSSLRSLTGLSGVEPI  
 NCEAWEWLHRVVGDSRCTLVDTWWQTETGGICIA PRPSEEGAEILPAMAMRPFPGIVPVLMEKGSVMEG  
 SNVSGALCISQAWPGMARTIYGDHQRFDAYFKAYPGYYFTGDGAYRTEGGYYQITGRMDDVINISGHR  
 GTAEIEDAIADHPAVPESAVIGYPHDIKGEAAFAFIVVKDSAGSDVVVQELKSMVATKI AKYAVPDEIL  
 VVKRLPKTRSGKVMRLLRKKIITSEAQELGDTTTL EDP SIIAEILSVYQKCKDKQAAAK

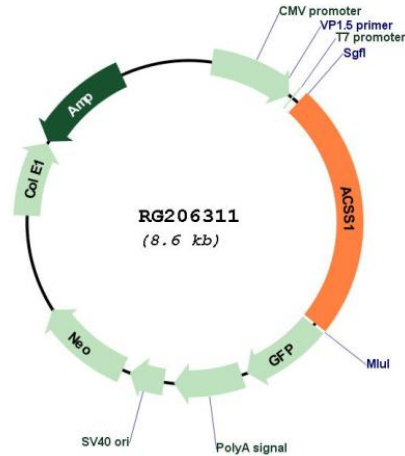
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_032501

**ORF Size:** 2067 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\\_032501.1](#)

**RefSeq Size:** 4488 bp

RefSeq ORF:	2070 bp
Locus ID:	84532
UniProt ID:	<a href="#">Q9NUB1</a>
Cytogenetics:	20p11.21
Domains:	AMP-binding
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]