

Product datasheet for **MG210011**

Acss1 (NM_080575) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acss1 (NM_080575) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acss1
Synonyms:	1110032O15Rik; Acas2; Acas2l; AceCS2; AI788978
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG210011 representing NM_080575
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCGCGCAGCCTCGGCAGCGGTGTGGGGCGACTGCTGCGTGGCCTGCAAGGGCGCTCTGGACAAT
 CGGGGTGGTCACTGAGCGTGTCCCGCTCGACCGCCACCGACTCCCGGGCTGCGTTCCTGCAGCAGCGCA
 ACCAGGCTCGTACCCCGGTTGAGCGCTCAGGCAGCCCAGGAGCCGCGCCCTTCTGGGGCCGCTGGCC
 CGTGACACACTAGTTTGGGACACTCCTTACCATACTGTCTGGGACTGTGACTTCAGGACGGGCAAGATCG
 GCTGGTTCCTGGGAGGCCAGTTGAATGTGTCTGTCAACTGCCTGGATCAGCATGTGCAGAAGTCTCTGA
 GACCATAGCTTTGATCTGGGAGAGAGATGAACCTGGGACAGAAGTGAGAATCACTTACAGGGAGCTTCTG
 GAGACCACATGCCGCTGGCCAATACACTGAAGAGACATGGAGTGCACCGAGGGGACCGTGTGGCCATCT
 ACATGCCTGTGTCCCACTGGCTGTGGCAGCAATGCTGGCCTGTGCCAGGATTGGAGCTATCCACACAGT
 GGTATTTGCTGGCTTTAGTGCAGAGTCTTGGCTGGGAGGATCAATGATGCCAAATGCAAGGCTGTTATC
 ACCTTCAACCAAGGACTCAGGGGAGGGCGTGTGGTGGAGCTGAAGAAAATAGTGGATGAAGCTGTGAAGA
 GCTGCCAACAGTCCAGCATGTCCTGGTGGCTCACAGGACGGACACCAAGGTTCCCATGGGGAGTCTGGA
 TATCCCCCTTGAACAGGAGATGGCCAAGGAGGCCCTGTTTGACCCCTGAGAGCATGAGCAGTGAAGAC
 ATGCTCTTTATGCTCTACACCTCAGGGAGCACCAGGACACCAAGGGACTCGTTCATACACAGGCAGGCT
 ATCTACTGTATGCCGCCATGACGCACAAGCTCGTGTGGTACTACCAGCCAGGTGATGTCTTTGGCTGTGT
 GGCTGACATCGGTTGGATCACAGGACACAGCTATGTGGTGTATGGACCCCTGCAATGGAGCTACCACA
 GTCCTTTTGGAGACACCCAGTTTACCCTGATGCTGGTGGTACTGGGAGACAGTGCAGAGGCTAAAGA
 TCAACCAGTTCATGGTGGCCCGACAGCTGTCCGGCTGCTGCTGAAGTATGGGGATCCCTGGGTGAAAAA
 GTATGACCGCTCTTCCCTGCGCACACTGGGGTCAGTGGGAGAGCCTATCAACCACGAAGCCTGGGAGTGG
 CTCACAAAGTCTGGGTGATGGCAGATGTACACTGGTGGACACTTGGTGGCAAACGAAACTGGAGGCA
 TCTGCATTGCACCACGGCCCTCGGAAGATGGGGCAGAGATCCTCCCGGCATGGCCATGAGGCCGTTTTT
 TGGCATCGTTCCTGACTCATGGATGAGAAGGGCAATGTTTTGGAGGGTGGAGATGTCTCTGGGGCCTTG
 TGTATTTCCCAAGCTTGGCCAGGCATGGCAAGGACCATCTATGGTGACCACCAGAGGTTCTGTAGATGCCT
 ACTTCAGAGCGTACCCAGGTTATTACTTCACTGGAGACGGAGCTCACCGACAGAGGGTGGCTATTACCA
 GATCACGGGGCGCATGGATGATGTCATCAATATCAGTGGTTCATCGCCTGGGGACTGCAGAGATTGAGGAT
 GCAATGGCTGACCATCCCGCTGTCCAGAGACTGCTGTCATTGGGTACCCTCATGATATCAAAGGAGAAG
 CTGCATTTGCCTTCATTGTGCTGAAAGATAACATCAGTGTGAGAACATGGTAGTGAATGAACTCAAATT
 GTCGGTGGCCACCAAGATCGCCAAGTATGCTGTGCTGACCAGATCCTGGTGGTGAAGCGTCTCCCCAAA
 ACCAGATCTGGGAAAGTATGAGGAGACTACTGAGGAAGATCATCACCAGCAGGGGACAGGATCTAGGGG
 ACACCACTACCCTGGAGGACCCAGCGTCATCACAGAAATCTTGAGTGCCTTCCAGAAGTATGAAGAGCA
 GCGGGCTGCTACCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210011 representing NM_080575
 Red=Cloning site Green=Tags(s)

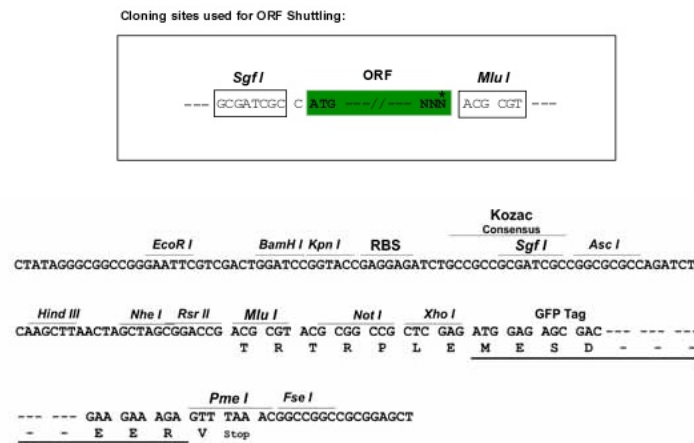
MAARSLGSGVGRLLRGLQGRSGQSGWSLSVSRSTATRLPGCVAAAQPGSYPALSAQAAQEPAAFWGPLA
 RDTLVWDTPYHTVWDCDFRTGKIGWFLGGQLNVSVNCLDQHVQKSPETIALIWERDEPGTEVRITYRELL
 ETTCLRLANTLKRHGVRHRGDRVAIYMPVSPPLAVAAAMLACARIGAIHTVVFAGFSAESLAGRINDAKCKAVI
 TFNQGLRGRVVELKKIVDEAVKSCPTVQHVLVAHRTDTKVPMGSLDIPLEQEMAKEAPVCTPESMSSED
 MLFMYLTSGSTGTPKGLVHTQAGYLLYAAMTHKLVFDYQPGDVFVCVADIGWITGHSYVVYGPLCNGATT
 VLFESTPVYPDAGRYWETVQRLKINQFYGAPTAVRLLKYGDAWVKYDRSSLRTLGSVGEPIINHEAWW
 LHKVVGDRCTLVDTWWQTETGGICIAPRPSEDGAEILPGMAMRPFVGVVLMDEKGNVLEGGDVSGAL
 CISQAWPGMARTIYGDHQRFDVAYFRAYPGYYFTGDGAHRTEGGYYQITGRMDDVINISGHRLGTAEIED
 AMADHPAVPETAVIGYPHDIKGEAAFAFIVLKDNI SDENM VVNELKLSVATKIAKYAVPDQILVVKRLPK
 TRSGKVMRRLLRKIITSRQDLGDTTTLLEDP SVITEILSAFQKYEEQRAATN

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_080575

ORF Size: 2046 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_080575.2](#), [NP_542142.1](#)

RefSeq Size: 3594 bp

RefSeq ORF: 2049 bp

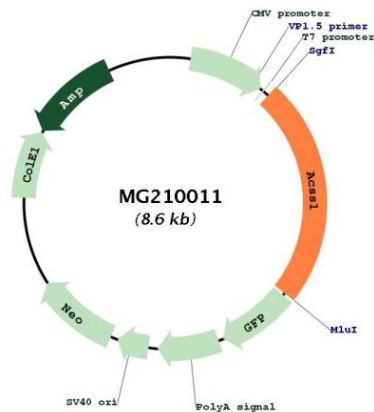
Locus ID: 68738

UniProt ID: [Q99NB1](#)

Cytogenetics: 2 G3

Gene Summary: Important for maintaining normal body temperature during fasting and for energy homeostasis. Essential for energy expenditure under ketogenic conditions. Converts acetate to acetyl-CoA so that it can be used for oxidation through the tricarboxylic cycle to produce ATP and CO(2).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210011