

Product datasheet for **MG206638**

Acss1 (BC030930) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acss1 (BC030930) 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)
ORF Nucleotide Sequence:	>MG206638 representing BC030930 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAGGAGGCCCTGTTTGCACCCCTGAGAGCATGAGCAGTGAAGACATGCTCTTTATGCTCTACA
CCTCAGGGAGCACCGGGACACCAAGGGACTCGTTCATACACAGGCAGGCTATCTACTGTATGCCGCCAT
GACGCACAAGCTCGTGTGGACTACCAGCCAGGTGATGTCTTTGGCTGTGTGGCTGACATCGTTGTATC
ACAGGACACAGCTATGTGGTGTATGGACCCCTCTGCAATGGAGCTACCACAGTCCTTTTGAGAGCACCC
CAGTTTACCCTGATGCTGGTCTGTTACTGGGAGACAGTGCAGAGGCTAAAGATCAACCAGTCTATGGTGC
CCCGACAGCTGTCCGGCTGCTGCTGAAGTATGGGGATGCCTGGGTGAAAAAGTATGACCGCTCTCCCTG
CGCACACTGGGGTCAGTGGGAGAGCCTATCAACCACGAAGCCTGGGAGTGGCTCCACAAAGTCGTGGGTG
ATGGCAGATGTACTGTTGGACTTGGTGGCAAACGGAAACTGGAGGCATCTGCATTGCACCACGGCC
CTCGGAAGATGGGGCAGAGATCCTCCCGGGCATGGCCATGAGGCCGTTTTTTGGCATCGTTCCTGTACTC
ATGGATGAGAAGGGCAATGTTTTGGAGGGTGGAGATGTCTCTGGGGCCTGTGTATTTCCCAAGCTTGGC
CAGGCATGGCAAGGACCATCTATGGTGACCACCAGAGTTCGTAGATGCCTACTTCAGAGCGTACCCAGG
TTATTACTTCACTGGAGACGGAGCTCACCGACAGAGGGTGGCTATTACCAGATCACGGGGCCGATGGAT
GATGTCATCAATATCAGTGGTCATCGCCTGGGGACTGCAGAGATTGAGGATGCAATGGCTGACCATCCCG
CTGTTCCAGAGACTGCTGTGTCATTGGGTACCCTCATGATATCAAAGGAGAAGCTGCATTTGCCTTCAATTGT
GCTGAAAGATAACATCAGTGATGAGAACATGGTAGTGAATGAACTCAAATTGTCGGTGGCCACCAAGATC
GCCAAGTATGCTGTGCTGACCAGATCCTGGTGGTGAAGCGTCTCCCAAACCAGATCTGGGAAAGTGA
TGAGGAGACTACTGAGGAAGATCATCACCAGCAGGGGACAGGATCTAGGGGACACCCTACCCTGGAGGA
CCCCAGCGTCATCACAGAAATCTTGAGTGCCTCCAGAAGTATGAAGAGCAGCGGGCTGCTACCAAC

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206638 representing BC030930
 Red=Cloning site Green=Tags(s)

MAKEAPVCTPESMSSEDFMLYTSGSTGTPKGLVHTQAGYLLYAAMTHKLVFDYQPGDVFQCVADIGCI
 TGHSYVVYGPLCNGATTVLFFESTPVYPDAGRYWETVQRLKINQFYGAPTAVRLLKYGDAWVKYDRSSL
 RTLGSVGEPIINHEAWWLHKVVDGRCRLVDTWWQTETGGICIAAPRSEDGAEILPGMAMRPFPGIIVPVL
 MDEKGNVLEGGDVSALCISQAWPGMARTIYGDHQRFDVAYFRAYPGYYFTGDGAHRTEGGYYQITGRMD
 DVINISGHRGTAEIEDAMADHPAVPETAVIGYPHDIKGEAAFAFIVLKDNI SDENMVVNELKLSVATKI
 AKYAVPDQILVVKRLPKTRSGKVMRRLLRKIITSRGQDLGDTTTLLEDPSVITEILSAFQKYEEQRAATN

TRTRPLE - GFP Tag - V

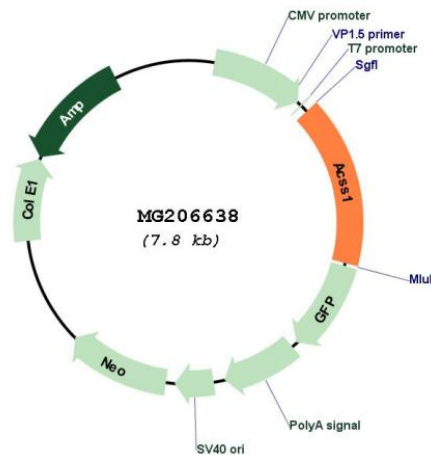
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC030930

ORF Size:	1259 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:	BC030930 , AAH30930
RefSeq Size:	2783 bp
RefSeq ORF:	1259 bp
Locus ID:	68738
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]