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Product datasheet for MR206638

Acss1 (BC030930) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acss1 (BC030930) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acss1
Synonyms:	1110032O15Rik; Acas2; Acas2l; AceCS2; AI788978
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206638 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAAGGAGGCCCCTGTTTGCACCCCTGAGAGCATGAGCAGTGAAGACATGCTCTTTATGCTCTACA
CCTCAGGGAGCACCGGGACACCCAAGGGACTCGTTCATACACAGGCAGGCTATCTACTGTATGCCGCCAT
GACGCACAAGCTCGTGTTTGACTACCAGCCAGGTGATGTCTTTGGCTGTGTGGCTGACATCGGTTGTATC
ACAGGACACAGCTATGTGGTGTATGGACCCCTCTGCAATGGAGCTACCACAGTCCTTTTTGAGAGCACCC
CAGTTTACCCTGATGCTGGTCGTTACTGGGAGACAGTGCAGAGGCTAAAGATCAACCAGTTCTATGGTGC
CCCGACAGCTGTCCGGCTGCTGCTGAAGTATGGGGATGCCTGGGTGAAAAAGTATGACCGCTCTTCCCTG
CGCACACTGGGGTCAGTGGGAGAGCCTATCAACCACGAAGCCTGGGAGTGGCTCCACAAAGTCGTGGGTG
ATGGCAGATGTACACTGGTGGACACTTGGTGGCAAACGGAAACTGGAGGCATCTGCATTGCACCACGGCC
CTCGGAAGATGGGGCAGAGATCCTCCCGGGCATGGCCATGAGGCCGTTTTTTGGCATCGTTCCTGTACTC
ATGGATGAGAAGGGCAATGTTTTGGAGGGTGGAGATGTCTCTGGGGCCTTGTGTATTTCCCAAGCTTGGC
CAGGCATGGCAAGGACCATCTATGGTGACCACCAGAGGTTCGTAGATGCCTACTTCAGAGCGTACCCAGG
TTATTACTTCACTGGAGACGGAGCTCACCGGACAGAGGGTGGCTATTACCAGATCACGGGGCGCATGGAT
GATGTCATCAATATCAGTGGTCATCGCCTGGGGACTGCAGAGATTGAGGATGCAATGGCTGACCATCCCG
CTGTTCCAGAGACTGCTGTCATTGGGTACCCTCATGATATCAAAGGAGAAGCTGCATTTGCCTTCATTGT
GCTGAAAGATAACATCAGTGATGAGAACATGGTAGTGAATGAACTCAAATTGTCGGTGGCCACCAAGATC
GCCAAGTATGCTGTGCCTGACCAGATCCTGGTGGTGAAGCGTCTCCCCAAAACCAGATCTGGGAAAGTGA
TGAGGAGACTACTGAGGAAGATCATCACCAGCAGGGGACAGGATCTAGGGGACACCACTACCCTGGAGGA
CCCCAGCGTCATCACAGAAATCTTGAGTGCCTTCCAGAAGTATGAAGAGCAGCGGGCTGCTACCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

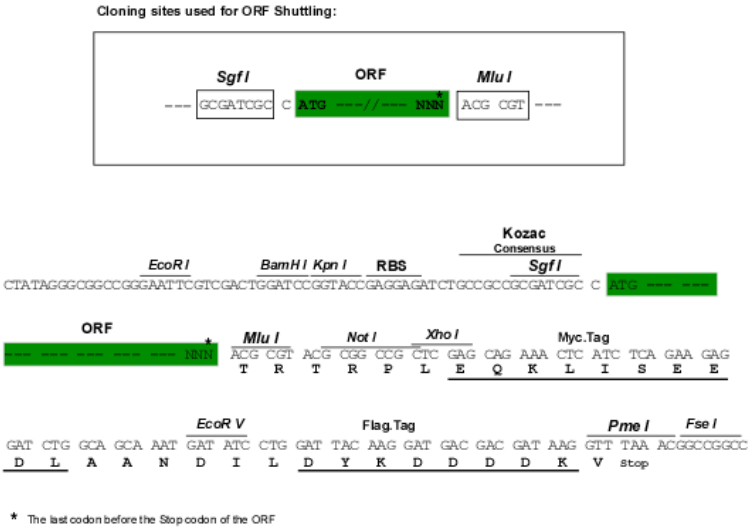
>MR206638 protein sequence
Red=Cloning site Green=Tags(s)

MAKEAPVCTPESMSSEDMLFMLYTSGSTGTPKGLVHTQAGYLLYAAMTHKLVFDYQPGDVFGCVADIGCI
TGHSYVVYGPLCNGATTVLFESTPVYPDAGRYWETVQRLKINQFYGAPTAVRLLLKYGDAWVKKYDRSSL
RTLGSVGEPINHEAWEWLHKVVGDGRCTLVDTWWQTETGGICIAPRPSEDGAEILPGMAMRPFFGIVPVL
MDEKGNVLEGGDVSGALCISQAWPGMARTIYGDHQRFVDAYFRAYPGYYFTGDGAHRTEGGYYQITGRMD
DVINISGHRLGTAEIEDAMADHPAVPETAVIGYPHDIKGEAAFAFIVLKDNISDENMVVNELKLSVATKI
AKYAVPDQILVVKRLPKTRSGKVMRRLLRKIITSRGQDLGDTTTLEDPSVITEILSAFQKYEEQRAATN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC030930

ORF Size: 1257 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: BC030930, AAH30930

RefSeq Size: 2783 bp

RefSeq ORF: 1259 bp

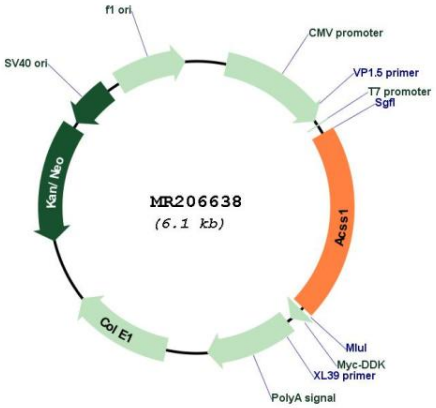
Locus ID: 68738

Cytogenetics: 2 G3

MW: 46.2 kDa

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 MR206638