

Product datasheet for **MR230926**

Acs11 (NM_001302163) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acs11 (NM_001302163) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acs11
Synonyms:	Ac; Acas; Acas1; Acs; Fac; Fac12; FACS; LACS 1; LACS1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230926 representing NM_001302163
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGTCCATGAATTGTTCCGGTATTTTCGAATGCCAGAGCTGATTGACATTCGGCAGTACGTGCGCA
 CCCTTCCAACCAACACCCTCATGGGTTTGGGGCTTTTGACGCGCTCACCACTTCTGGTATGCCACCAG
 GCCTAAGGCCCTGAAGCCACCATGTGACCTCTCCATGCAGTCAGTGAAAAAGCGGGTACCACTGATGGT
 ATTCGAAGATCAGCAGTCTTGAAGATGACAAGCTCTTGGTGTACTACTACGACGATGTCAGAACCATGT
 ACGATGGCTTCCAGAGGGGATTGAGGTGTCAAAATAATGGTCTTGTAGGTTCTCGGAAGCCAAACCA
 GCCCTATGAGTGGATTTCTACAAAGAGGTGCCAGAACTGGCTGAGTGCATAGGCTCCGGGCTGATCCAG
 AAGGGTTCAAGCCTTGCTCCGAGCAGTTCATCGGCCTTCTCTCAAAACAGACCCGAGTGGGTGATCG
 TCGAGCAAGGATGCTTCTTACTCAATGGTGGTCGTCGCCCTCTATGACACCCTGGAGCTGACGCCAT
 CACCTACATAGTGAACAAAGCTGAACTCTCTGTGATTTTTGCTGACAAGCCAGAAAAAGCCAAACTTTA
 TTAGAAGGTGTAGAAAACAGTTAACACCATGCCTTAAAATCATAGTCATCATGGACTCCTACGGCAGTG
 ATCTGGTGGAAACGAGGCAAGAAGTGTGGGTGGAAATCATCAGCCTCAAAGCTCTGGAGGACCTTGGAA
 AGTGAACAGAGTGAAGCCCAAGCCTCCAGAACCAGAGATCTTGCATAATTTGTTTCAAGTGGAACT
 ACAGGCAACCCCAAGGAGCAATGATCACTCACAAAACATTATAAACGACTGCTCAGGTTTTATAAAAG
 CAACAGAGAGTGCATTATCGCTTCCACAGATGATGTGCTGATATCTTCTTGCCTCTCGCCCATATGTT
 TGAGACCGTTGTAGAGTGTGAATGCTGTGTCATGGAGCTAAGATAGGATTTTTCCAAGGAGATACAGG
 CTGCTTATGGACGACCTCAAGGTGCTTCAGCCCACCATCTCCCTGTGGTCCCAGGCTGCTGAACCGGA
 GTTTCGACAGAAATTTTGGACAAGCAAACTTCTTGAAGCGATGGCTGTTGGACTTTGCCTCCAAAAG
 GAAAGAGCGGAGCTTCGACGTGGCATCGTCAGAAACAACAGCCTGTGGGATAAACTCATCTTCCACAAG
 ATACAGTCGAGCCTGGTGGGAAAGTCCGGCTGATGATCAGAGGAGCAGCCCGGTGTCTGCCACAGTGC
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 CAAATGTGTTCAAAGGCTACTTGAAGACCCAGCAAGAACAGCTGAAGCCCTGGATAAAGATGGCTGGT
 ACACACGGGGACATTGAAAAATGGCTGCCAAATGGCACCTTGAAGATTATCGACAGAAAAAGCACATA
 TTTAAACTAGCCCAAGGAGAGTACATAGCACAGAAAAGATTGAAAATATCTACCTGCGGAGTGAAGCCG
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 GAGCCTACCGTCTGGGCACAGAAGAGAGGCTTACAAGGGTCTTGAAGAACTGTGCAGGAACAAGGAT
 ATCAATAAAGCTATCCTGGACGACTTGTGAAACTTGGGAAGGAAGCCGGTCTGAAGCCATTTGAACAGG
 TCAAAGGCATTGCTGTGCACCCGGAATTTTTCTATTGACAACGGCCTTCTGACTCCAACACTGAAGGC
 GAAGAGGCCAGAGCTACGGAACTATTTCAAGTTCGAGATAGATGAACTGTACGCCACCATCAAGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230926 representing NM_001302163
 Red=Cloning site Green=Tags(s)

MEVHELFRYFRMPELIDIRQYVRTLPTNTLMGFGAFAAL TTFWYATRPKALKPPCDLSMQSVEIAGTTDG
 IRRSAVLEDDKLLVYYYDDVRTMYDGFQRGIQVSNNGPCLGSRKPNQPYEWISYKEVAELAECIGSGLIQ
 KGFKPCSEQFIGLFSQNRPEWVIVEQGCFYSYMVVVPLYDTLGADAITYIVNKAELSVIFADKPEKAKLL
 LEGVENKLT PCLKIIVIMDSYGSDLVERGKKCGVEIISLKALEDLGRVNRVKKPPPEPEDLAIICFTSGT
 TGNPKGAMITHQNIINDCSGFIKATESAFIASTDDVLISFLPLAHMFETVVECVM LCHGAKIGFFQGD
 IRLMDDLKVLQPTIFPVVPRLLNRMFDRIFGQANTSLKRWLLDFASKRKEAELRSGIVRNSLWDKLI
 FHKIQSSLGGKVRLMITGAAPVSATVLTFLRTALGCQFYEGYQTECTAGCCLSLPGDWTAGHV
 GAPMPCNYV KLVDVEEMNYLASKGEGEVCKGANVFKGYLKDPARTAEALDKDGLHTGDIGKWL
 PNGTLKIIDRKKHIFKLAQGEYIAPEKIENIYLRSEAVAQV FVHGESLQAFLIAVVPDVE
 SLPSWAQKRGLQGSFEELCRNKD INKAILDDLKLGKEAGLKPFEQVKGIAVHPELFSIDNGLL
 TPTLKAKRPELRNYFRSQIDELYATIKI

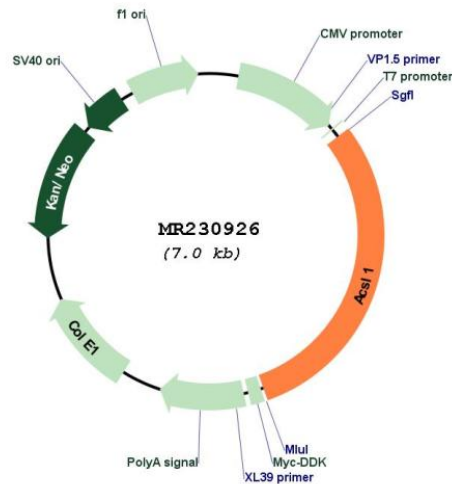
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001302163

ORF Size: 2097 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_001302163.1](#), [NP_001289092.1](#)

RefSeq Size: 3927 bp

RefSeq ORF: 2100 bp

Locus ID: 14081

UniProt ID: [P41216](#)

Cytogenetics: 8 B1.1

MW: 78.4 kDa

Gene Summary: The protein encoded by this gene belongs to a family of acyl coenzyme A synthetase proteins, which convert long chain fatty acids to acyl CoA products via an ATP-dependent pathway. This enzyme is enriched in heart, liver and adipose tissue, where it functions in lipid synthesis and mitochondrial and peroxisomal beta-oxidation. In addition, it is expressed in monocytes and macrophages where it appears to have a functionally distinct role in mediating inflammatory and innate immune responses. A pseudogene of this gene is found on chromosome 5. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]