

Product datasheet for **MC228715**

Acs11 (NM_001302163) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC228715 representing NM_001302163
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGTCCATGAATTGTTCCGGTATTTTCGAATGCCAGAGCTGATTGACATTCGGCAGTACGTGCGCA
 CCCTTCCAACCAACACCCTCATGGGTTTGGGGCTTTTGACGCGCTCACCACCTTCTGGTATGCCACCAG
 GCCTAAGGCCCTGAAGCCACCATGTGACCTCTCCATGCAGTCAGTGAAAATAGCGGGTACCACTGATGGT
 ATTCGAAGATCAGCAGTCTTGAAGATGACAAGCTCTTGGTGTACTACTACGACGATGTCAGAACCATGT
 ACGATGGCTTCCAGAGGGGATTGAGGTGTCAAAATAATGGTCTTGTAGGTTCTCGGAAGCCAAACCA
 GCCCTATGAGTGGATTTCTACAAAGAGGTGCCAGAACTGGCTGAGTGCATAGGCTCCGGCTGATCCAG
 AAGGGTTCAAGCCTTGCTCCGAGCAGTTCATCGGCCTTCTCTCAAAACAGACCCGAGTGGGTGATCG
 TCGAGCAAGGATGCTTCTTACTCAATGGTGGTCGTCGCCCTCTATGACACCCTGGAGCTGACGCCAT
 CACCTACATAGTGAACAAAGCTGAACTCTCTGTGATTTTTGCTGACAAGCCAGAAAAAGCCAAACTCTTA
 TTAGAAGGTGTAGAAAACAGTTAACACCATGCCTTAAAATCATAGTCATCATGGACTCCTACGGCAGTG
 ATCTGGTGGAAACGAGGCAAGAAGTGTGGGTGGAAATCATCAGCCTCAAAGCTCTGGAGGACCTTGGAA
 AGTGAACAGAGTGAAGCCCAAGCCTCCAGAACCAGGATCTTGCATAATTTGTTTCAAGTGGAACT
 ACAGGCAACCCCAAGGAGCAATGATCACTCACCAAAACATTATAAACGACTGCTCAGGTTTTATAAAAG
 CAACAGAGAGTGCATTATCGCTTCCACAGATGATGTGCTGATATCTTCTTGCCTCTCGCCCATATGTT
 TGAGACCGTTGTAGAGTGTAAATGCTGTGTCATGGAGCTAAGATAGGATTTTTCCAAGGAGATACAGG
 CTGCTTATGGACGACCTCAAGGTGCTTCAGCCCACCATCTCCCTGTGGTCCCAGGCTGCTGAACCGGA
 GTTTCGACAGAATTTTTGGACAAGCAAACTTCTTGAAGCGATGGCTGTTGGACTTTGCCTCCAAAAG
 GAAAGAGCGGAGCTTCGACAGTGGCATCGTCAGAAACAACAGCCTGTGGGATAAACTCATCTTCCACAAG
 ATACAGTCGAGCCTGGGTGGGAAAGTCCGGCTGATGATCACAGGAGCAGCCCGGTGTCTGCCACAGTGC
 TGACGTTTCTGAGGACAGCGCTCGGCTGCCAGTCTATGAAGGCTACGGACAGACCGAGTGCAGTCTGG
 TTGCTGCCTGAGCTTGCCTGGAGACTGGACGGCAGGCCATGTTGGAGCCCCATGCCTTGAATTATGTA
 AAGCTTGTGGATGTGGAAGAAATGAATTACCTGGCATCCAAGGGCGAGGGTGAAGTGTGTGAAAGGGG
 CAAATGTGTTCAAAGGCTACTTGAAGACCCAGCAAGAACAGCTGAAGCCCTGGATAAAGATGGCTGGT
 ACACACGGGGACATTGGAATAATGGCTGCCAAATGGCACCTTGAAGATTATCGACAGGAAAAAGCACATA
 TTTAAACTAGCCCAAGGAGATACATAGCACCAGAAAAGATTGAAAATATCTACCTGCGGAGTGAAGCCG
 TGCCCCAGGTGTTGTCCACGGAGAAAGCTTGCAGGCCTTCTCATAGCAGTTGTGGTACCCGACGTTGA
 GAGCCTACCGTCTGGGCACAGAAGAGAGGCTTACAAGGGTCTTGAAGAACTGTGCAGGAACAAGGAT
 ATCAATAAAGCTATCCTGGACGACTTGTGAAACTTGGGAAGGAAGCCGGTCTGAAGCCATTTGAACAGG
 TCAAAGGCATTGCTGTGCACCCGGAATTTTTCTATTGACAACGGCCTTCTGACTCCAACACTGAAGGC
 GAAGAGGCCAGAGCTACGGAACTATTTCAAGTTCGAGATAGATGAACTGTACGCCACCATCAAGATCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001302163
- Insert Size:** 2100 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001302163.1</u> , <u>NP_001289092.1</u>
RefSeq Size:	3927 bp
RefSeq ORF:	2100 bp
Locus ID:	14081
UniProt ID:	<u>P41216</u>
Cytogenetics:	8 B1.1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript.</p>