OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC229371

Acly (NM_001199296) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acly (NM_001199296) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acly
Synonyms:	A730098H14Rik; AW538652
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229371 representing NM_001199296 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCAGCCAAGGCAATTTCAGAGCAGACCGGCAAAGAACTCCTGTACAAGTACATCTGCACCACCTCGG CCATCCAGAACCGGTTCAAGTACGCCCGGGTGACTCCCGACACAGACTGGGCCCATCTGCTGCAGGACCA CCCGTGGCTGCTCAGCCAGAGCTTGGTTGTCAAGCCAGACCAGTTAATCAAACGTCGAGGAAAGCTTGGC CTCGTCGGGGTCAATCTCTCTCTGGATGGAGTCAAATCCTGGCTAAAACCTCGCCTGGGACATGAAGCCA CTGTCGGCAAGGCCAAAGGCTTCCTCAAGAACTTTCTCATTGAACCCTTCGTCCCCCACAGTCAGGCGGA GGAGTTCTACGTGTGCATCTATGCTACCCGGGAAGGAGACTACGTCCTGTTCCACCATGAAGGGGGTGTG GATGTGGGCGATGTGGATGCCAAAGCCCAGAAGCTGCTTGTGGGTGTGGACGAAAAGCTGAATACCGAGG ACATTAAGAGACACCTGTTGGTCCATGCACCTGAGGACAAGAAAGAAGTCCTGGCCAGCTTCATCTCTGG TCTATTCAATTTCTACGAGGATCTGTACTTCACCTACCTTGAGATCAACCCCCTTGTGGTGACCAAAGAT GGTGTCTACATCCTTGACTTGGCGGCCAAGGTGGATGCCACAGCTGACTACATCTGTAAAGTCAAGTGGG GTGATATAGAGTTCCCTCCCCCCTTTGGGCGTGAGGCGTACCCCGAGGAAGCCTACATTGCAGACCTGGA TGCCAAAAGTGGAGCAAGCTTGAAGCTGACCTTGCTGAACCCCAAGGGGCGGATCTGGACCATGGTTGCT GGGGGTGGCGCCTCCGTCGTGTACAGTGACACCATCTGTGATCTTGGAGGTGTCAATGAACTGGCGAATT ACGGGGAATACTCGGGTGCCCCCAGTGAACAACAGACCTATGACTATGCCAAGACCATCCTCTCACTTAT GACTCGAGAGAAGCACCCAGAAGGCAAGATCCTCATCATTGGAGGCAGCATTGCAAACTTCACCAATGTG GCCGCCACCTTCAAGGGCATTGTGAGAGCGATTCGAGATTACCAGGGTCCCCTGAAGGAGCATGAGGTCA CCATCTTTGTCCGAAGAGGTGGCCCCAACTATCAAGAGGGATTACGAGTGATGGGAGAAGTTGGGAAGAC CACTGGGATCCCCATCCATGTCTTTGGCACAGAAACTCACATGACGGCCATTGTGGGCATGGCCCTGGGC CACCGGCCCATTCCCAACCAGCCACCCACAGCAGCTCACACTGCCAACTTCCTCCTTAATGCCAGCGGGA GCACATCGACTCCAGCACCCAGTAGGACAGCATCTTTTTCTGAGTCCCGAGCTGATGAAGTGGCACCTGC AAAGAAAGCCAAGCCAGCTATGCCCCAAGATTCAGTCCCAAGTCCAAGATCCCTGCAAGGAAAGAGTGCC

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ACCCTCTTCAGCCGACATACCAAGGCCATCGTGTGGGGCATGCAGACCCGGGCTGTGCAGGGCATGCTGG
ACTTTGACTACGTGTGTTCCCGAGACGAGCCCTCAGTGGCTGCCATGGTCTACCCTTTCACTGGGGATCA
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AACAACCCAGACATGCGAGTGCAGATCCTCAAGGACTTCGTCAAACAGCACTTCCCCGCCACCCCGCTGC
TCGACTATGCCCTGGAAGTGGAGAAGATTACCACCTCCAAGAAGCCAAATCTTATCCTGAATGTGGACGG
CTTCATCGGCGTTGCGTTTGTGGACATGCTCAGGAACTGTGGCTCCTTCACCCGGGAGGAAGCTGATGAA
TATGTTGACATTGGAGCCCTCAATGGCATCTTTGTGCTAGGAAGGAGTATGGGCTTCATTGGGCACTACC
TTGACCAGAAGAGGCTGAAGCAAGGGCTGTATCGTCACCCCTGGGATGACATTTCCTATGTTCTTCCAGA
ACACATGAGCATGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3166_h02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001199296

Insert Size: 3306 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:
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_001199296.1, NP_001186225.1

RefSeq Size: 4438 bp

RefSeq ORF: 3306 bp

Locus ID: 104112

Cytogenetics: 11 D

Gene Summary: ATP-citrate synthase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis (PubMed:25450640). In nervous tissue it may be involved in the biosynthesis of acetylcholine (By similarity) (PubMed:25450640).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and it encodes the longer protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.