

Product datasheet for **MC216802**

Acod1 (NM_008392) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acod1 (NM_008392) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acod1
Synonyms:	AI323667; CAD; Irg1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_008392, the custom clone sequence may differ by one or more nucleotides

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ATGATGCTCAAGTCTGTACAGAGAGCTTTGCTGGTATGATTCACGGCTTGAAAGTGAACCACTGACAG
ATGGTATCATTCCGAGGAGCAAGAGGATGATCCTGGATTCTCTGGGCGTTGGCTTCTGGGGACAGGCAC
AGAAGTGTTCATAAAGTCACCCAATAAGTAAATCTACAGTTCCAACACCTCCAGCACTGTTTGGGGT
CGACCAGACTTCAGGCTCCACCCGACATATGCTGCTTTTGTAAATGGTGTGCTGTTCACTCCATGGATT
TTGATGACACATGGCACCTGCCACCCACCTTCTGGGGCTGCTCCTACCTGCTCCTACAGCTCTATCGGA
AGCCCTGCCTCAGACTCCCAAGTTTTCTGGCCTCGACCTGCTGCTGGCGTTCAACGTTGGTATTGAAGTA
CAGGGACGATTAATGCACTTCTCCAAGGAAGCCAAAGACATACCAAAGAGATTCCACCCTCCCTCTGTGG
TGGGGACTCTGGGAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
ATTGGCTATTGCTGTTTTCCACGCGAGGGGACCCATAGCGAACGCTGCCACTCAGACTAAGCCCTTCAT
ATTGGCAATGCAGCAAGCATGGGATGGAAGCCACGTTTTCTGGCAATGCTGGGCCTCCAAGGAAACAAAC
AGATCTTGGACCTGGGGTCAGGGTTCGGTGCCTTCTATGCCAACTACTCCCCGAAGACCTTCCAAGCCT
GGATTCTCACATCTGGCTGTTGGACCAGCAGGATGTGGCCTTAAAGAGCTTCCCGGCACATCTGGCTACC
CACTGGGTGGCAGATGCAGCTGCAGCCGTGAGAAAGCACCTTGTGACACCAGAAAGAGCCCTGTTCCCTG
CTGACCACATCGAGAGAATCGTGCTCAGGATCCCTGACGTCCAGTACGTAACAGGCCCTTCCCGGACTC
AGAGCATGAAGCCCGTCATTCTTCCAGTATGTGGCCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
CCATCCTTCCACAGCCAGCAGGTCAATAGGCCTCAGGTGAGAGAGTTGCTCAAGAAGGTGAAGCTGGAGC
ATCCTCCTGACAACCCGCAAGCTTCGACACGCTATACTGTGAAATAAGCATCACTCTAAAGGACGGGAC
CACTTTACCCGAGCGCTCTGACACCTTCTATGGTCACTGGAGGAAACCACTGAGCCAGGAAGATCTGCGC
AACAAAGTCCGAGCCAATGCCTCAAAGATGCTATGCAGGGACACGGTGGAAAGCCTTATAACGGTAGTAG
AAAAGCTAGAAGACCTAGAAGACTGCTCTGTGCTAACCAGACTTCTGAAAGGACCCTCTGTCCAAGATGA
AGCTTCAAACATCCAGCATGCTCCTATTGATCACACAACGTTGCCAGGTTTACCAATATCTAA
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Chromatograms:	https://cdn.origene.com/chromatograms/ja1294_e04.zip
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_008392
Insert Size:	1467 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_008392.1 , NP_032418.1
RefSeq Size:	2588 bp
RefSeq ORF:	1467 bp
Locus ID:	16365
UniProt ID:	P54987
Cytogenetics:	14 51.67 cM
Gene Summary:	Involved in the inhibition of the inflammatory response. Acts as a negative regulator of the Toll-like receptors (TLRs)-mediated inflammatory innate response by stimulating the tumor necrosis factor alpha-induced protein TNFAIP3 expression via reactive oxygen species (ROS) in LPS-tolerized macrophages. Involved in antimicrobial response of innate immune cells; ACOD1-mediated itaconic acid production contributes to the antimicrobial activity of macrophages. Plays a role in the embryo implantation.[UniProtKB/Swiss-Prot Function]