

Product datasheet for RR212528

Acot1 (NM_031315) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acot1 (NM_031315) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acot1
Synonyms:	Cte1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR212528 representing NM_031315 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCGACTCTGAGCCTGGGGCCCGCCGCGCAGCTGCTGGGATGAGCCGCTGAGCATCACCGTGC
GCGGCCTGGTCCCGAGCAGCCCGTCACGCTGCGCGCGGCCCTGCGCGACGAGAAGGGCGCGCTCTCCG
AGCCCGCGCGCTCTACCGCGCCGATGCCACGGAGAGCTGGACCTGGCGCGCGCCCGCTTGGGGGC
AGCTTCACGGGGCTCGAGCCCATGGGGTGTCTGGGCCATGGAGCCGAACGGCCTTTCTGGCGCTTGG
TCAAGCGCGACGTGCAGACGCCCTTCGTGGTGGAGCTGGAGGTGTGGACGGACACAACCCGACGGCGG
GCGGCTGCTGGCGCGGGCGGTGCACGAGCGTCACTTCATGGCTCCCGGGTGCGGCGGGTCCCCGTGCGC
GAGGGCAGGGTGCAGCCACGCTCTTCCCTGCCCCAGAACCTGGGCCCTTCTGGAATCATAAACCTTT
TTGGAGTTGGAGGCGGCCTTCTGGAGTACCGGGCGAGTCTGCTGGCTGGGAAGGGTTTTGCCGTCATGGC
TCTGGCTTATTACAACACTACGACGACCTCCCAAGACCATGGAAACCATGCGCATTGAGTACTTTGAAGAA
GCCGTGAACACTGCGTGGCCACCCTGAGGTAAGGACCAGGAATTGGGCTGCTTGGGATTTCCAAG
GGGTGAACCTGGCCTTGCTATGGCCTCCTTCTGAAGGCATCACGGCTGCTGTGTATCAATGGCTC
CGTGGCTGCTGTTGGGAACCATATGCTACAAGGATGAGACTATACCCCTGTGACTATCCTGAGAAAC
CAGGTCAAAATGACCAAGGATGGCCTCAAGGATGTTGTAGATGCTTTGCAAAGCCCTCTGGTAGAACAGA
AGAGCTTCATCCCTGTGAAAGGTCTGACACGACCTTCTGTTCCCTGTTGGTCAGGATGACCACAACG
GAAGAGCGAGTTCTATGCCAATGAGATCTCCAACGCTTGCAGGCCACGGGAAAGAGAAGCCCCAGATC
ATTTGCTACCCAGAAGCAGGGCACTATATCGAGCCTCCTTACTTCCCCTGTGCAGCGCTGGCATGCACC
TCCTGGTGGGTGCTAACATCACCTTTGGAGGGGAGCCTAAGCCTCACTCTGTGCCCAAGTTGGATGCATG
GCAGCAACTCCAGACTTTCTCCACAAACAGTTGGGTGTAAGAGTCATGGGGTGTCCCCTAAAATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212528 representing NM_031315
Red=Cloning site Green=Tags(s)

MEATLSLGPAGRSCWDEPLSITVRGLVPEQPVTLRAALRDEKGFARALYRADAHGELDLARAPALGG
 SFTGLEPMGLLWAMEPERPFWRLVKRDVQTPFVVELEVLGDGHPDGGRLARAVHERHFMAPGVRVPVR
 EGRVRATLFLPPEPGPFGIINLFGVGGLLLEYRASLLAGKGFAYMALAYNYDDLPKTMTMTRIEYFEE
 AVNYLRGHPEVKGPGIGILLGISKGELGLAMASFLKGITAAVVINGSVAAVGNTICYKDETI PPVTILRN
 QVKMTKDGLKDVV DALQSPLEQKSFIPVERSDTTFLFLVQDDHNWKSEFYANEISKRLQAHGKEKPQI
 ICYPEAGHYIEPPYFPLCSAGMHLLVGANITFGGEPKPHSVAQLDAWQQLQTFHFKQLGGKSHGVSFKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2570_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_031315

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: [NM_031315.2](#), [NP_112605.1](#)

RefSeq Size: 1591 bp

RefSeq ORF: 1260 bp

Locus ID: 50559

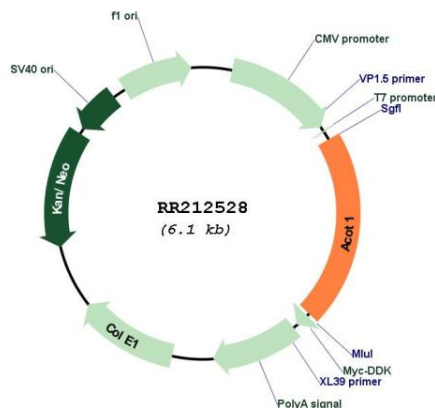
UniProt ID: [O88267](#)

Cytogenetics: 6q24

MW: 46.4 kDa

Gene Summary: mouse homolog has acyl-CoA thioesterase activity against long-chain acyl-CoAs; may play a role in lipid metabolism [RGD, Feb 2006]

Product images:



Circular map for RR212528