

Product datasheet for **RR214768**

Acot12 (NM_130747) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acot12 (NM_130747) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acot12
Synonyms:	Cach; rACH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR214768 representing NM_130747
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAACCGACAGTGGCTCCCGCGAGGTGCTCATGAGCCAGGCCATCCAGCCTGCGCACGCCGACTCGC
 GCGGCGAGCTGAGCGCCGGCAACTACTTAAGTGGATGGACACCACTGCCTGCCTGGCCGCTGAAAAGCA
 TGCTGGGATTTCTGTGTACAGCCTCAATGGATGACATTCTGTTTGAGGACACGGCTAGAAATTGGACAG
 ATTGTTACCATCAGAGCAAAAGTACTAGGGCGTTGAGCACAAGCATGGAGATCAGTATCAAGGTGACAG
 TCCAGGACAAGTTCAGTGGCATCCAGAAGCTCCTCTGTGTGGCTTCTCGACATTTGTAGTTAAACCGCT
 CGGCAAGAAAAGTTCACTTGAACCTGTTCTGCTTCAAACGGAGCAAGAGCAAGTGGAGCACCGTCTG
 GCCTCCGAGAGGAGAAAGTCCGGTTACAGCATGAGAACACCTTCAGCAACATTATGAAGGAAAGCAACT
 GGCTCAGGGATCCCGTTTGAATGAAGAGGAAGGAACGGCCACCACCATGGCCACCTCTGTCAGAGCAT
 TGAGCTTGTCTCCACCCACGCAACCACCGAAACACATTTGGCGGGCAGATCATGGCGTGGATG
 GAGACAGTCGCAACCATTTCCGCAAGCCGCTGTGTATGGGCATCCCTTTCTGAAGTCCGTGGATATGT
 TTAATTCGGGGACCGTCCACAGTTGGGGACCGCTTGTCTTCAATGCCATCGTCAACAACACCTTTCA
 GAACAGTGTGGAAGTTGGCGTACGTGTTGAGGCCTTTGACTGTGGGAGTGGGCCGAGGGCCAAGGCCGC
 CACATCAACAGCGCTTTTCTCATTTACAATGCTGTTGATGACCAGGAGGAATCATCACCTTTCCAGAA
 TCCAGCCCATTTCAAAGGATGATTTTCGACGGTACCAGGGAGCTATTGCACGGAGGAGAATTGCGCTGGG
 CAGGAAATATGTTATTTCCACAAGAAAGTCCCACTTGGCACACAATGGGATATAAGCAAAAAGGGA
 TCCATAAGTAACCAATGTGGAAGCTCTCAAAAATCTGGCATCCAAAAGCGTTGGGAGATCACCACCA
 CCTTGGAGAAGATAAAAATATATACACTGGAAGAGCAAGATGCCATATCTGTAAGGTGGAAAAACAGG
 TGGAAAGTCCAGCCCGCTGGCTTATCATCTCTGTCCGACTTCACAAAGCGCCCTTTATGGGACCCCAT
 TACATATCTTGTGAAGTCATAGACCAGGTGAGTGGAGCAGTATAGATATATTACATCACCTGCTCGGTGG
 TAAATGGAGACAAACCAAGGACTTCGTAGTACTTGTGTCACAAAGAAAGCCCTCAAGGACGACAACAC
 CTACATCGTGGCACTAATGTCAGTGGTACTGCCGTCTGTCCCTCCATCTCCACAGTACATCAGAAGCCAG
 GTCATTTGTGCTGGTTCCTCATCCAGCCTGTCGACAGCAGTTCGTGCACTGTAGCATACCTGAACCAGA
 TGTGACAGCATCCTCCCTACTTTGCTGGCAATATTGGTGGCTGGTCAAAATCCATTGAGGAAGCTGC
 AGCCTCTGTATAAAATTCATAGAGAACGCCACTCACGATGGACTTAAAAGTGTGTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214768 representing NM_130747
 Red=Cloning site Green=Tags(s)

MEPTVAPGEVLMSEQAIQPAHADSRGELSAGQLLKWMDTTACLA AEKHAGISCVTASMDLIFEDTARIGQ
 IVTIRAKVTRAFSTSMELSIKVRVQDKFTGIQKLLCVAFSTFVVKPLGKEKVHLKPVLLQTEQEVEHRL
 ASERRKVRQLQHENTFSNIMKESNWL RDPVCNEEEGTATTMATS VQSIELVLP PHANHHGNTFGGQIMAWM
 ETVATISASRLCHGHPFLKSDMFKFRGPSTVGDRLVFNAIVNNTFQNSVEVGRVVEAFDCREWAEGQGR
 HINSAFLIYNVDDQEELITFPRIQPI SKDDFRRYQGA IARRRIRLGRKYVISHKKEVPLGTQWDISKKG
 SISNTNVEALKNLASKSGWEITTTLEKIKIYTL EEQDAISVKVEKQVGS PARVAYHLLSDFTKRPLWDPH
 YISCEVIDQVSEDDQIYYITCSVVNGDKPKDFVVLVSQRKPLKDDNTYIVALMSVVLPSVPPSPQYIRSQ
 VICAGFLIQPVDSSSCTVAYLNQMSDSILPYFAGNIGGWSKSIEEAAASCIKFIENATHDGLKSVL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_130747

ORF Size: 1668 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_130747.1](#), [NP_570103.1](#)
RefSeq Size: 1725 bp

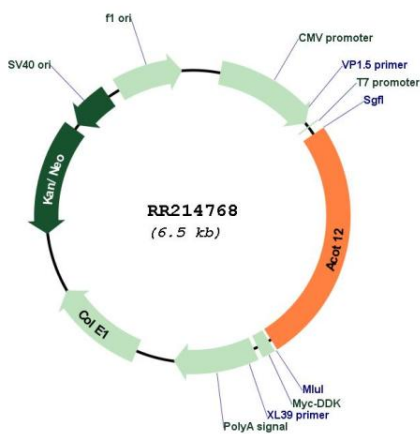
RefSeq ORF: 1671 bp

Locus ID: 170570

UniProt ID: [Q99NB7](#)

Cytogenetics: 2q12
 MW: 62 kDa
 Gene Summary: acetyl-CoA hydrolase found in cytoplasm [RGD, Feb 2006]

Product images:



Circular map for RR214768