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 RR200531

Acly (NM_016987) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acly (NM_016987) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acly
Synonyms:	ACL; Clatp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR200531 representing NM_016987 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCAGCCAAGGCAATTTCAGAGCAGACCGGCAAAGAACTCCTTTACAAGTACATCTGTACCACCTCAG CCATCCAGAACCGGTTCAAGTATGCCCGGGTTACTCCCGACACAGACTGGGCCCATCTCCTGCAGGACCA CCCCTGGCTGCTTAGCCAGAGCTTGGTAGTCAAGCCGGACCAGCTGATCAAACGTCGAGGAAAGCTTGGT CTAGTCGGGGTCAACCTCTCTCTGGATGGAGTCAAATCCTGGCTGAAACCTCGACTGGGACATGAGGCCA CCGTCGGCAAGGCCAAAGGCTTCCTCAAGAACTTTCTGATTGAGCCCTTCGTCCCCCACAGTCAGGCGGA GGAGTTCTACGTGTGCATCTATGCTACCCGGGAAGGAGACTACGTCCTGTTCCACCATGAAGGGGGTGTG GATGTGGGCGATGTGGACACCAAAGCCCAGAAGCTGCTTGTGGGTGTGGACGAGAAACTGAACGCTGAAG ACATTAAGAGACACCTGTTGGTCCACGCCCCCGAAGACAAGAAAGAAATCCTGGCCAGCTTCATCTCCGG CCTATTCAATTTCTACGAAGATCTTTACTTCACCTACCTTGAGATCAACCCCCTTGTGGTGACCAAAGAT GGTGTCTACATCCTTGACCTGGCGGCCAAGGTGGACGCCACTGCTGACTACATCTGCAAAGTCAAGTGGG GTGATATAGAGTTCCCTCCCCCCTTTGGGCGTGAGGCATACCCAGAGGAAGCCTACATTGCAGACCTGGA TGCCAAAAGTGGGGCGAGCTTGAAGCTGACCTTGCTGAACCCCAAGGGGCGGATCTGGACCATGGTTGCC GGGGGTGGCGCCTCTGTCGTGTACAGTGATACCATCTGTGATCTTGGAGGTGTCAACGAACTGGCGAATT ACGGGGAGTACTCTGGTGCCCCCAGTGAACAACAGACCTATGACTACGCCAAGACCATCCTCTCACTTAT GACTCGAGAGAAGCACCCGGATGGCAAGATCCTCATCATTGGAGGCAGCATTGCAAACTTCACCAACGTG GCCGCCACCTTCAAGGGCATTGTGAGAGCAATTCGAGATTACCAGGGTCCCCTGAAGGAGCACGAGGTCA CCATCTTTGTTCGAAGAGGTGGCCCGAACTATCAAGAGGGATTACGAGTGATGGGAGAAGTTGGGAAGAC CACTGGAATCCCCATCCATGTCTTTGGCACAGAAACTCACATGACGGCCATTGTGGGCATGGCCCTGGGC CACCGGCCCATTCCCAACCAGCCACCCACAGCGGCTCACACTGCCAACTTCCTCCTTAATGCCAGTGGGA GCACATCGACACCAGCACCCAGCAGGACAGCGTCTTTTTCCGAGTCCAGAGCTGACGAGGTGGCCCCTGC AAAGAAAGCCAAGCCAGCCATGCCCCAAGATTCAGTCCCAAGTCCAAGATCCCTGCAAGGAAAGAGTGCC

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ACCCTCTTCAGCCGACATACCAAGGCTATCGTGTGGGGCATGCAGACCCGGGCTGTGCAAGGCATGCTGG
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Protein Sequence:

>RR200531 representing NM_016987
Red=Cloning site Green=Tags(s)

MSAKAISEQTGKELLYKYICTTSAIQNRFKYARVTPDTDWAHLLQDHPWLLSQSLVVKPDQLIKRRGKLG
LVGVNLSLDGVKSWLKPRLGHEATVGKAKGFLKNFLIEPFVPHSQAEEFYVCIYATREGDYVLFHHEGGV
DVGDVDTKAQKLLVGVDEKLNAEDIKRHLLVHAPEDKKEILASFISGLFNFYEDLYFTYLEINPLVVTKD
GVYILDLAAKVDATADYICKVKWGDIEFPPPFGREAYPEEAYIADLDAKSGASLKLTLLNPKGRIWTMVA
GGGASVVYSDTICDLGGVNELANYGEYSGAPSEQQTYDYAKTILSLMTREKHPDGKILIIGGSIANFTNV
AATFKGIVRAIRDYQGPLKEHEVTIFVRRGGPNYQEGLRVMGEVGKTTGIPIHVFGTETHMTAIVGMALG
HRPIPNQPPTAAHTANFLLNASGSTSTPAPSRTASFSESRADEVAPAKKAKPAMPQDSVPSPRSLQGKSA
TLFSRHTKAIVWGMQTRAVQGMLDFDYVCSRDEPSVAAMVYPFTGDHKQKFYWGHKEILIPVFKNMADAM
KKHPEVDVLINFASLRSAYDSTMETMNYAQIRTIAIIAEGIPEALTRKLIKKADQKGVTIIGPATVGGIK
PGCFKIGNTGGMLDNILASKLYRPGSVAYVSRSGGMSNELNNIISRTTDGVYEGVAIGGDRYPGSTFMDH
VLRYQDTPGVKMIVVLGEIGGTEEYKICRGIKEGRLTKPVVCWCIGTCATMFSSEVQFGHAGACANQASE
TAVAKNQALKEAGVFVPRSFDELGEIIQSVYEDLVAKGAIVPAQEVPPPTVPMDYSWARELGLIRKPASF
MTSICDERGQELIYAGMPITEVFKEEMGIGGVLGLLWFQRRLPKYSCQFIEMCLMVTADHGPAVSGAHNT
IICARAGKDLVSSLTSGLLTIGDRFGGALDAAAKMFSKAFDSGIIPMEFVNKMKKEGKLIMGIGHRVKSI
NNPDMRVQILKDFVKQHFPATPLLDYALEVEKITTSKKPNLILNVDGFIGVAFVDMLRNCGSFTREEADE
YVDIGALNGVFVLGRSMGFIGHYLDQKRLKQGLYRHPWDDISYVLPEHMSM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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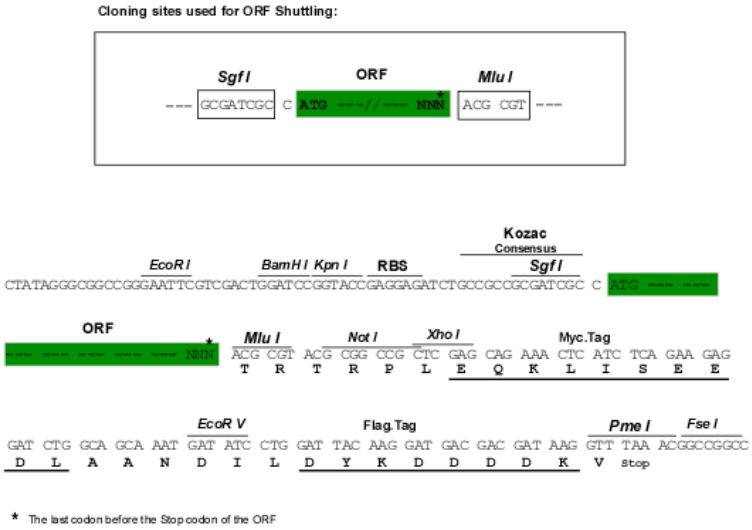
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016987

ORF Size: 3303 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_016987.2, NP_058683.2

RefSeq Size: 4331 bp

RefSeq ORF: 3306 bp

Locus ID: 24159

UniProt ID: P16638

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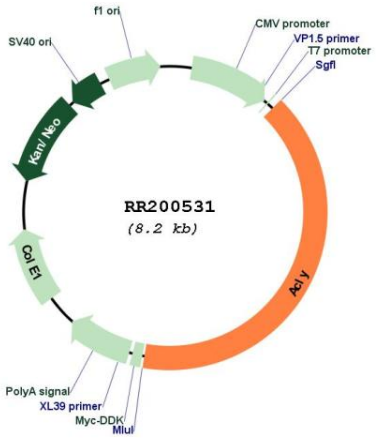
Cytogenetics: 10q31

MW: 120.8 kDa

Gene Summary: catalyzes the synthesis of cytosolic acetyl-CoA; plays a role in lipid and cholesterol metabolism [RGD, Feb 2006]

Product images:



Circular map for RR200531

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