

Product datasheet for **RR200532**

Acly (NM_001111095) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Acly (NM_001111095) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Acly
Synonyms: ACL; Clatp
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200532 representing NM_001111095
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGCCAAGGCAATTCAGAGCAGACCCGGCAAGAAGCTCCTTTACAAGTACATCTGTACCACCTCAG
 CCATCCAGAACCAGTTCAAGTATGCCCGGGTACTCCCGACACAGACTGGGCCCATCTCTCGAGGACCA
 CCCCTGGCTGCTTAGCCAGAGCTTGGTAGTCAAGCCGGACCAGCTGATCAAACGTCGAGGAAAGCTTGGT
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Protein Sequence:

>RR200532 representing NM_001111095

Red=Cloning site Green=Tags(s)

MSAKAISEQTGKELLYKICTTSAIQNRFKYARVTPDWDWAHLLQDHPWLLSQSLVVKPDQLIKRRGKLG
 LVGVNLSLDGVKSWLKPRLGHEATVVKAKGFLKNFLIEPFVPHSQAEFYVCIYATREGDYVLFHHEGGV
 DVGVDVTKAQKLLVGVDEKLNAEDIKRHLLVHAPEDKKEILASFISGLFNFYEDLYFTYLEINPLVVTKD
 GYYILDAAKVDATADYICKVKGWIDIEFPFPGREAYPEEAYIADLDAKSGASLKLTLNPKGRIWMTVA
 GGGASVVYSDTICDLGGVNELANYGEYSGAPSEQQTYDYAKTILSLMTREKHPDGKILIIIGGSIANFTNV
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 VWGMQTRAVQGMDFDYVCSRDEPSVAAMVYFPFTGDHKQKFWGHKEILIPVFKNMADAMKKHPEVDVLI
 NFASLRSAYDSTMETMNYAQIRTI AIIAEGIPEALTRKLIKADQKGVTTIIGPATVGGIKPGCFKIGNTG
 GMLDNILASKLYRPGSVAYVSRSGGMSNELNII SRTTDGVYEGVAIGGDRYPGTFMDHVLRYQDTPGV
 KMI VVLGEIGGTEEYKICRGIKEGRLTKPVVCWICGTATMF SSEVQFGHAGACANQASETAVAKNQALK
 EAGVFPVRSFDELGEIIQSVYEDLVAKGAI VPAQE VPPPTVPMDY SWARELGLIRKPASFMTSICDERGQ
 ELIYAGMPITEVFKEEMGIGGVLGLLWFQRRLPKYSCQFIEMCLMVTADHGPAVSGAHNTIICARAGKDL
 VSSLTSGLLTIGDRFGGALDAAAKMFSKAFDSGIIPMEFVNKMKKEGKLMGIGHRVKSIINPNPDMRVQIL
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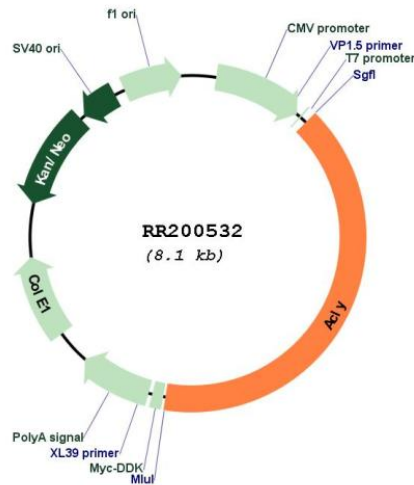
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001111095

ORF Size: 3273 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:	<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:	<u>NM_001111095.1, NP_001104565.1</u>
RefSeq Size:	4301 bp
RefSeq ORF:	3276 bp
Locus ID:	24159
UniProt ID:	<u>P16638</u>
Cytogenetics:	10q31
MW:	119.7 kDa
Gene Summary:	catalyzes the synthesis of cytosolic acetyl-CoA; plays a role in lipid and cholesterol metabolism [RGD, Feb 2006]