

Product datasheet for **MG211618**

Acly (NM_134037) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acly (NM_134037) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acly
Synonyms:	A730098H14Rik; AW538652
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211618 representing NM_134037 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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GGAGTTCTACGTGTGCATCTATGCTACCCGGGAAGGAGACTACGTCCTGTTCCACCATGAAGGGGTGTG
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CCTCAGTGGCTGCCATGGTCTACCCCTTCTACTGGGGATACAAGCAGAAGTTTTACTGGGGACACAAGGA
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG211618 representing NM_134037
 Red=Cloning site Green=Tags(s)

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MSAKAISEQTGKELLYKYICTTSAIQNRFKYARVTPDWDWAHLLQDHPWLLSQSLVVKPDQLIKRRGKLG
LVGVNLSLDGVKSWLKPRLGHEATVVKAKGFLKNFLIEPFVPHSQAEFYVCIYATREGDYVLFHHEGGV
DVGVDVDAKAQKLLVGVDEKLNTEDIKRHLLVHAPEDKKEVLASFISGLFNFYEDLYFTYLEINPLVVTGD
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EAGVFPVRSFDELGEIIQSVYEDLVAKGAIVPAQEVPPTVPMDYSWARELGLIRKPASFMTSICDERGQ
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FVLGRSMGFIGHYLDQKRLKQGLYRHPWDDISYVLPHEHMSM
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TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_134037

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:

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_134037.3](#), [NP_598798.1](#)

RefSeq Size: 4408 bp

RefSeq ORF: 3276 bp

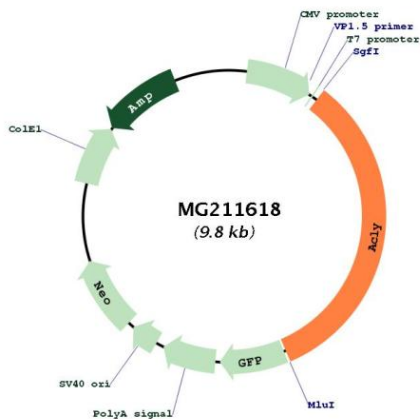
Locus ID: 104112

UniProt ID: [Q91V92](#)

Cytogenetics: 11 D

Gene Summary: ATP-citrate synthase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis (PubMed:25450640). In nervous tissue it may be involved in the biosynthesis of acetylcholine (By similarity) (PubMed:25450640).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG211618