

Product datasheet for MR218261

Acot7 (NM_001146058) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Acot7 (NM_001146058) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Acot7
Synonyms: 2410041A17Rik; Ach1; Act; Bach; Cte-II; CTE-IIa; Lach1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218261 representing NM_001146058
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCACACTGCACAGAGCCTTGGCTCTCCGAGTCTCAGAAAGGAAGTCACTGAGGCCTACCTCAGAG
 AGAAGGTCAAACAGATCATGCGTCCAGATGATGCCAATGTGGCTGGCAATGTTTCATGGAGGGACCATTCT
 GAAGATGATTGAGGAGGCCGGGCCATCATCAGCACGCGGCACTGTAACAGCCAGAATGGGAGCGCTGT
 GTGGCTGCCCTGGCACGGGTGGAGCGCACTGACTTCTGTCACCCATGTGCATCGGGAGGTGGCTCATG
 TCAGTGCAGAGATCACCTACACTTCCAAGCACTCTGTGGAGGTCCAGGTCCACGTGATGTCGGAGAACAT
 CCTCACAGGTACCAAAAAGCTGACCAATAAAGCCACCTTGTGGTATGTGCCCTGTCAATGAAGAATGTG
 GACAAGGTCTTTGAGGTGCCTCCATTGTGATTTACGGCAGGAGCAGGAGGAGGAGGTGCGAAAACGCT
 ATGAAGCCAGAAGCTGGAACGCATGGAGACCAAGTGGAGGAACGGAGACATTGTCCAGCCTGTCCTGAA
 CCCAGAGCCGAACACGGTGAGCTACAGCCAGTCCAGCCTGATCCACCTGGTGGGGCCCTCGGACTGCACC
 TTTCATGGCTTCGTGCACGGAGGTGTACCATGAAGCTCATGGATGAGGTGGCTGGGATTGTGGCTGCAC
 GCCACTGCAAGACCAACATAGTAACTGCCTCTGTGGATGCCATCAATTTCCACGACAAGATCCGAAAGG
 CTGTGTATCACCATCTCCGGACGATGACCTTACAAGCAATAAGTCCATGGAGATTGAGTCTTGGTG
 GACGCTGACCCTGTGGTGACAACCTCACAAAAGCGTACCAGGGCCAGTGCCTTTCACCTACGTGT
 CCCTGAACCAGGAGGGCAAGCCAATGCCTGTGCCTCAGCTTGTGCCAGAGACGGAGGATGAGAAGAAGCG
 CTTCAAGAAGGCAAAGGCCGTTATCTGCAGATGAAGGCGAAGCGACAGGGCCACACAGAGCCTCAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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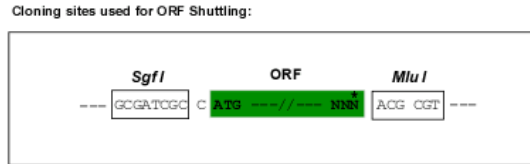
Protein Sequence: >MR218261 representing NM_001146058
 Red=Cloning site Green=Tags(s)

MLTLHRALALRVLKRVKVEAYLREKVKQIMRPDDANVAGNVHGGTILKMIEEAGAIISTRHCNSQNGERC
 VAALARVERTDFLSPMCIGEVAVHSAEITYTSKHSVEVQVHVMSENILGTGKLTNKATLWYVPLSLKNV
 DKVLEVPPIVYLRQEQEEGRKRYEAQKLERMETKWRNGDIVQVPLNPEPNTVSYSSQLIHLVGPSDCT
 LHGFVHGGVTMKLMDEVAGIVAARHCKTNIVTASVDAINFHDKIRKGCVITISGRMTFTSNKSMEIEVLV
 DADPVVDNSQKRYRAASAFFTYVSLNQEKGKMPVPVQLVPETEDEKKRFEEGKGRYLQMKAKRQGHTEPQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001146058

ORF Size: 1050 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_001146058.1](#), [NP_001139530.1](#)

RefSeq Size: 1367 bp

RefSeq ORF: 1053 bp

Locus ID: 70025

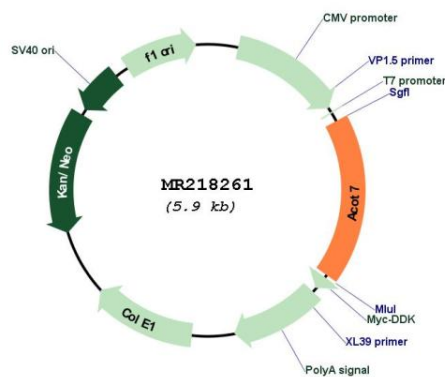
UniProt ID: [Q91V12](#)

Cytogenetics: 4 E2

MW: 39.7 kDa

Gene Summary: Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH (PubMed:15288813). Acyl-coenzyme A thioesterase 7/ACOT7 preferentially hydrolyzes palmitoyl-CoA, but has a broad specificity acting on other fatty acyl-CoAs with chain-lengths of C8-C18 (Probable). May play an important physiological function in brain (PubMed:15288813).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218261