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Product datasheet for MR205033

Acot7 (NM_133348) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acot7 (NM_133348) 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:

>MR205033 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCGGCCCCACCACAGACACGCCGGCCGCCATCCAGATCTGCCGGATCATGCGTCCAGATGATGCCA
ATGTGGCTGGCAATGTTCATGGAGGGACCATTCTGAAGATGATTGAGGAGGCCGGGGCCATCATCAGCAC
GCGGCACTGTAACAGCCAGAATGGGGAGCGCTGTGTGGCTGCCCTGGCACGGGTGGAGCGCACTGACTTC
CTGTCACCCATGTGCATCGGCGAGGTGGCTCATGTCAGTGCAGAGATCACCTACACTTCCAAGCACTCTG
TGGAGGTCCAGGTCCACGTGATGTCGGAGAACATCCTCACAGGTACCAAAAAGCTGACCAATAAAGCCAC
CTTGTGGTATGTGCCCCTGTCATTGAAGAATGTGGACAAGGTCCTTGAGGTGCCTCCCATTGTGTATTTA
CGGCAGGAGCAGGAGGAGGAGGGTCGGAAACGCTATGAAGCCCAGAAGCTGGAACGCATGGAGACCAAGT
GGAGGAACGGAGACATTGTCCAGCCTGTCCTGAACCCAGAGCCGAACACGGTGAGCTACAGCCAGTCCAG
CCTGATCCACCTGGTGGGGCCCTCGGACTGCACCCTTCATGGCTTCGTGCACGGAGGTGTCACCATGAAG
CTCATGGATGAGGTGGCTGGGATTGTGGCTGCACGCCACTGCAAGACCAACATAGTAACTGCCTCTGTGG
ATGCCATCAATTTCCACGACAAGATCCGGAAAGGCTGTGTCATCACCATCTCCGGACGCATGACCTTCAC
AAGCAATAAGTCCATGGAGATTGAGGTCCTGGTGGACGCTGACCCTGTGGTGGACAACTCACAAAAGCGC
TACCGGGCCGCCAGTGCCTTCTTCACCTACGTGTCCCTGAACCAGGAGGGCAAGCCAATGCCTGTGCCTC
AGCTTGTGCCAGAGACGGAGGATGAGAAGAAGCGCTTCGAAGAAGGCAAAGGCCGTTATCTGCAGATGAA
GGCGAAGCGACAGGGCCACACAGAGCCTCAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

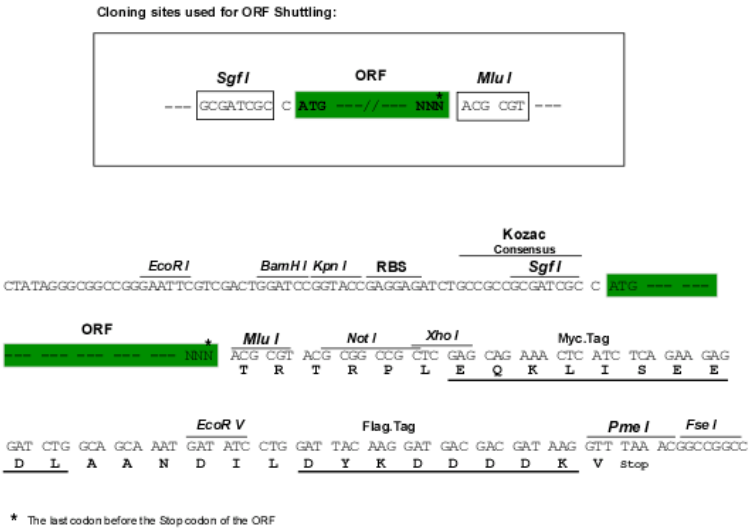
>MR205033 protein sequence
Red=Cloning site Green=Tags(s)

MSGPTTDTPAAIQICRIMRPDDANVAGNVHGGTILKMIEEAGAIISTRHCNSQNGERCVAALARVERTDF
LSPMCIGEVAHVSAEITYTSKHSVEVQVHVMSENILTGTKKLTNKATLWYVPLSLKNVDKVLEVPPIVYL
RQEQEEEGRKRYEAQKLERMETKWRNGDIVQPVLNPEPNTVSYSQSSLIHLVGPSDCTLHGFVHGGVTMK
LMDEVAGIVAARHCKTNIVTASVDAINFHDKIRKGCVITISGRMTFTSNKSMEIEVLVDADPVVDNSQKR
YRAASAFFTYVSLNQEGKPMPVPQLVPETEDEKKRFEEGKGRYLQMKAKRQGHTEPQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133348

ORF Size: 1017 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_133348.1, NP_579926.1

RefSeq Size: 1494 bp

RefSeq ORF: 1140 bp

Locus ID: 70025

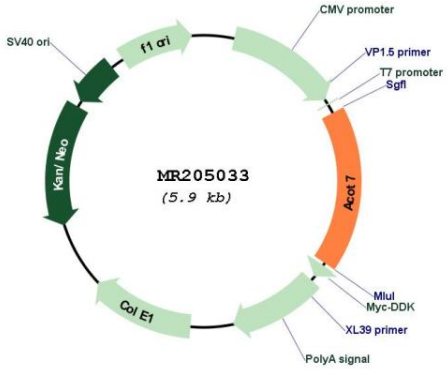
UniProt ID: Q91V12

Cytogenetics: 4 E2

MW: 37.6 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 MR205033