

Product datasheet for MR218634

Amacr (NM_008537) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amacr (NM_008537) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amacr
Synonyms:	Macr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218634 representing NM_008537 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCTGCGTGGCGTCAGGGTTGTGGAGCTGGCAGGCCTGGCCCCGGGGCCGTTCTGCGGAATGGTCC
TGGCGGACTTCGGCGCCGAGGTGGTGGCGTGAACCGGCTGGGCTCCACGGGCGAGAATTTCTGGCCCC
AGGCAAGCGCTCGCTAGCGCTGGACCTGAAGCGCTCTCAGGGAGTCACGGTGTTCGGCGCATGTGCGCA
CGCGCGGACGTGTTGCTGGAGCCCTCCGCTGCGGTGTCATGGAGAACTCCAGCTTGGCCAGAGACTC
TACTGCAGGACAATCAAAGCTCATCTATGCCAGGCTGAGCGGATTTGGCCAATCGGAATTTCTCCAA
AGTAGCTGGCCATGACATCAACTATTTGGCTTTATCAGGCGTTCTGTCAAAGATTGGCAGAAGCGGTGAG
AACCCCTACCCACCGCTGAATCTCCTGGCTGACTTTGGCGGTGGAGGCCTCATGTGCACACTGGGCATTG
TGCTGGCTCTCTTTGAACGCACACGCTCTGGCCGAGGGCAGGTCAATCGATTCAAGCATGGTGAAGGGAC
TGCATACTTAAGTTCTTTCTGTGGAAAACCCAGCCCATGGGTCTGTGGAACAGCCTCGAGGACAAAAC
ATCTTAGATGGCGGTGCACCTTTCTACACAACCTACAAGACGGCAGACGGGGAGTTTATGGCTGTAGGTG
CCATAGAACCCAGTTCTATGCACTGCTGCTTAAAGGACTTGGACTCGAGTCTGAGGAATCCCTCCCA
GATGAGCTCAGCAGATTGGCCAGAGATGAAGAAGAAATTTGCAGATGTGTTTGCAAAGAAGACTAAGGCA
GAATGGTGCCAGATCTTTGACGGGACAGATGCGTGTGTGACCCAGTGTGACGTTTGGAGGCCCTCC
ACCACCAGCACAACAGAGAACGGGCTCCTTCATCACTGATGGGAGCAGCTCCCGAGCCCCGCCCCCTGC
ACCTCTGCTTTCCAGAATCCTGCCGCTCCCATCTGCCAAAAGGGACCTTCTGTAGGGGAGCACACCGTA
GAAGTGCTTAGAGAGTATGGATTCAGTCAGGAAGAGATCCTTCAGCTGCACTCAGATAGAATCGTTGAAA
GTGATAAGCTAAAAGCCAATCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218634 representing NM_008537
 Red=Cloning site Green=Tags(s)

MVLRGVRVVELAGLAPGPFVCGMVLADFGAEVVRVNRVNLGSGTENFLARGKRSLALDLKRSQGVTVLRRMCA
 RADVLLLEPFRCGVMEKQLQGPETLLQDNPKLIYARLSGFGQSGIFSKVAGHDINYLLALSGVLSKIGRSGE
 NPYPPLNLLADFGGGGLMCTLGIIVLALFERTSRGRGQVIDSSMVEGTAYLSSFLWKTQPMGLWKQPRGQN
 ILDGGAPFYTTYKTADGEFMAVGAIEPQFYALLLKLGLGLESEELPSQMSSADWPENMKKFFADVFAKKTKA
 EWQCIFDGTDACVTPVLTFFEEALHHQHNRERASFITDGEQLSPRPAPLLSRTPAVPSAKRDPVSGEHTV
 EVLREYGFSSQEEILQLHSDRIVESDKLKANL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008537

ORF Size: 1143 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_008537.4](#), [NP_032563.2](#)

RefSeq Size: 2575 bp

RefSeq ORF: 1146 bp

Locus ID: 17117

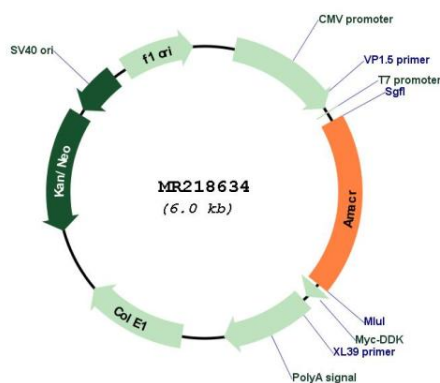
UniProt ID: [O09174](#)

Cytogenetics: 15 A1

MW: 42.2 kDa

Gene Summary: Catalyzes the interconversion of (R)- and (S)-stereoisomers of alpha-methyl-branched-chain fatty acyl-CoA esters (By similarity). Acts only on coenzyme A thioesters, not on free fatty acids, and accepts as substrates a wide range of alpha-methylacyl-CoAs, including pristanoyl-CoA, trihydroxycoprostanoyl-CoA (an intermediate in bile acid synthesis), and arylpropionic acids like the anti-inflammatory drug ibuprofen (2-(4-isobutylphenyl)propionic acid) but neither 3-methyl-branched nor linear-chain acyl-CoAs (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218634