

Product datasheet for **MG218634**

Amacr (NM_008537) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amacr (NM_008537) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Amacr
Synonyms:	Macr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218634 representing NM_008537 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCCTGCGTGGCGTCAGGGTTGTGGAGCTGGCAGGCCTGGCCCCGGGGCCGTTCTGCGGAATGGTCC
TGGCGGACTTCGGCGCCGAGGTGGTGGCGGTGAACCGGCTGGGCTCCACGGGCGAGAATTTCTGGCCCC
AGGCAAGCGCTCGCTAGCGCTGGACCTGAAGCGCTCTCAGGGAGTCACGGTGTTCGGCGCATGTGCGCA
CGCGCGGACGTGTTGCTGGAGCCCTCCGCTGCGGTGTCATGGAGAACTCCAGCTTGGCCAGAGACTC
TACTGCAGGACAATCAAAGCTCATCTATGCCAGGCTGAGCGGATTTGGCCAATCGGAATTTCTCCAA
AGTAGCTGGCCATGACATCAACTATTTGGCTTTATCAGGCGTTCTGTCAAAGATTGGCAGAAGCGGTGAG
AACCCCTACCCACCGCTGAATCTCCTGGCTGACTTTGGCGGTGGAGGCCTCATGTGCACACTGGGCATTG
TGCTGGCTCTCTTTGAACGCACACGCTCTGGCCGAGGGCAGGTGATCGATTCAAGCATGGTGAAGGGAC
TGCATACTTAAGTTCTTTCTGTGGAAAACCCAGCCCATGGGTCTGTGGAAACAGCCTCGAGGACAAAAC
ATCTTAGATGGCGGTGCACCTTTCTACACAACCTACAAGACGGCAGACGGGGAGTTTCATGGCTGTAGGTG
CCATAGAACCCAGTTCTATGCACTGCTGCTTAAAGGACTTGGACTCGAGTCTGAGGAACTCCCTCCCA
GATGAGCTCAGCAGATTGGCCAGAGATGAAGAAGAAATTTGCAGATGTGTTTGCAAAGAAGACTAAGGCA
GAATGGTGCCAGATCTTTGACGGGACAGATGCGTGTGTGACCCAGTGTGACGTTTGGAGGCCCTCC
ACCACCAGCACAACAGAGAACGGGCTCCTTCATCACTGATGGGGAGCAGCTCCCGAGCCCCGCGCTGC
ACCTCTGCTTTCCAGAACTCCTGCCGTCCTCATCTGCCAAAAGGGACCTTCTGTAGGGGAGCACACCGTA
GAAGTGCTTAGAGAGTATGGATTCAGTCAGGAAGAGATCCTTCAGCTGCACTCAGATAGAATCGTTGAAA
GTGATAAGCTAAAAGCCAATCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218634 representing NM_008537
 Red=Cloning site Green=Tags(s)

MVLRGVRVVELAGLAPGPFCEGMVLADFGAEVVRVNRLLGSTGENFLARGKRSLALDLKRSQGVTVLRRMCA
 RADVLLLEPFRCGVMEKLQLGPETLLQDNPKLIYARLSGFGQSGIFSKVAGHDINYLLSGVLSKIGRSGE
 NPYPPLNLLADFGGGGLMCTLGIIVLALFERTSRGRGQVIDSSMVEGTAYLSSFLWKTQPMGLWKQPRGQN
 ILDGGAPFYTTYKTADGEFMAVGAIEPQFYALLLKGLGLESEELPSQMSSADWPENMKKFAVFAKKTKA
 EWCQIFDGTDACVTPVLTFFEEALHHQHNRERASFITDGEQLSPRPAPLLSRTPAVPSAKRDPVSGEHTV
 EVLREYGFSSQEEILQLHSDRIVESDKLKANL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

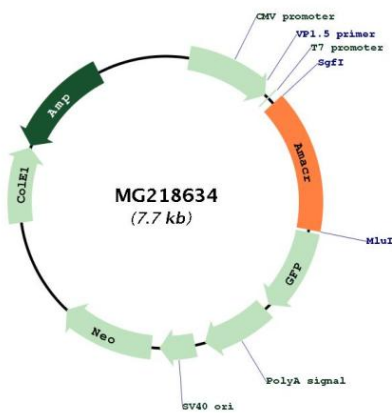
Locus ID: 17117

UniProt ID: [O09174](#)

Cytogenetics: 15 A1

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 MG218634