

Product datasheet for MR205514

Amacr (BC015825) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amacr (BC015825) 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:	>MR205514 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCTGGCGGACTTCGGCGCCGAGGTGGTGCCTGAACCGGCTGGGCTCCACGGGCGAGAATTTTC
TGGCCCGAGGCAAGCGCTCGCTAGCGCTGGACCTGAAGCGCTCTCAGGGAGTCACGGTGTTCGGCGCAT
GTGGCGACGCGCGGACGTGTTGCTGGAGCCCTCCGCTGCGGTGCATGGAGAACTCCAGCTTGGGCCA
GAGACTCTACTGCAGGACAATCCAAAGCTCATCTATGCCAGGCTGAGCGATTTGGCCAATCGGGAATTT
TCTCCAAAGTAGCTGGCCATGACATCAACTATTTGGCTTTATCAGCGTCTGTCAAAGATTGGCAGAAG
CGGTGAGAACCCCTACCCACCGCTGAATCTCCTGGCTGACTTTGGCGGTGGAGGCCCTCATGTGCACACTG
GGCATTGTGCTGGCTCTCTTTGAACGCACACGCTCTGGCCGAGGGCAGGTCATCGATTCAAGCATGGTGG
AAGGGACTGCATACTTAAGTTCTTTCTGTGAAAACCCAGCCATGGGTCTGTGAAAACAGCCTCGAGG
ACAAAACATCTTAGATGGCGGTGCACCTTTCTACACAACCTACAAGACGGCAGACGGGGAGTTTCATGGCT
GTAGGTGCCATAGAACCCAGTTCTATGCACTGCTGCTTAAAGGACTTGGACTCGAGTCTGAGGAACTCC
CCTCCAGATGAGCTCAGCAGATTGGCCAGAGATGAAGAAGAAATTTGCAGATGTGTTGCAAAGAAGAC
TAAGGCAGAATGGTGCCAGATCTTTGACGGGACAGATGCGTGTGTGACCCAGTGTGACGTTTGAGGAG
GCCCTCCACCACAGCACAACAGAGAACGGGCCCTCTTCATCACTGATGGGGAGCAGTCCCGAGCCCC
GCCCTGCACCTCTGCTTTCCAGAACTCCTGCCGTCCTATCGCCAAAAGGGACCCTTCTGTAGGGGAGCA
CACCGTAGAAGTGCTTAGAGAGTATGGATTCAGTCAGGAAGAGATCCTTCAGCTGCACTCAGATAGAATC
GTTGAAAGTGATAAGCTAAAAGCCAATCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205514 protein sequence
 Red=Cloning site Green=Tags(s)

MVLADFGAEVVRVNR LGSTGENFLARGKRSLALDLKRSQGVTVLRRMCARADVLLLEPFCGVMKQLQLGP
 ETLLQDNP KLIYARLSGFGQSGIFSKVAGHDINYLALSGVLSKIGRSGENPYPLNLLADFGGGGLMCTL
 GIVLALFERTSRGRQVIDSSMVEGTAYLSSFLWKTQPMGLWKQPRGQNILDGGAPFYTTYKTADGEFMA
 VGAIEPQFYALLKGLGLESEELPSQMSSADWPEMKKKFADVF AKKTKAEWCQIFDGTDACVTPVLT FEE
 ALHHQHNRERASFITDGEQLPSRPAPLLSRTPAVPSAKRDP SVGEHTVEVLR EYGF SQEEILQLHSDRI
 VESDKLKANL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC015825

ORF Size: 1080 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: [BC015825](#), [AAH15825](#)

RefSeq Size: 1472 bp

RefSeq ORF: 1082 bp

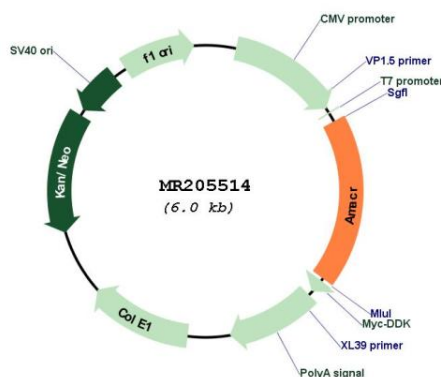
Locus ID: 17117

Cytogenetics: 15 A1

MW: 39.6 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 MR205514