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Product datasheet for RC229826

AMACR (NM_001167597) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMACR (NM_001167597) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMACR
Synonyms:	CBAS4; RACE; RM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC229826 representing NM_001167597
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCACTGCAGGGCATCTCGGTCGTGGAGCTGTCCGGCCTGGCCCCGGGCCCGTTCTGTGCTATGGTCC
TGGCTGACTTCGGGGCGCGTGTGGTACGCGTGGACCGGCCCGGCTCCCGCTACGACGTGAGCCGCTTGGG
CCGGGGCAAGCGCTCGCTAGTGCTGGACCTGAAGCAGCCGCGGGGAGCCGCCGTGCTGCGGCGTCTGTGC
AAGCGGTCGGATGTGCTGCTGGAGCCCTTCCGCCGCGGTGTCATGGAGAAACTCCAGCTGGGCCCAGAGA
TTCTGCAGCGGGAAAATCCAAGGCTTATTTATGCCAGGCTGAGTGGATTTGGCCAGTCAGGAAGCTTCTG
CCGGTTAGCTGGCCACGATATCAACTATTTGGCTTTGTCAGGTGGAAGGAACAGCATATTTAAGTTCTTT
TCTGTGGAAAACTCAGAAATTGAGTCTGTGGGAAGCACCTCGAGGACAGAACATGTTGGATGGTGGAGCA
CCTTTCTATACGACTTACAGGACAGCAGATGGGGAATTCATGGCTGTTGGAGCAATAGAACCCCAGTTCT
ACGAGCTGCTGATCAAAGGTCTGGGAGAACTGATCTTGCTGAAAATACAACAGGAAGCAGTATCGTGCCA
GGCAAGGCAAACCCTCGTCAGTGTGAAGCAATGGCCATCGTTGCAGCCCAAGTCATGGGGTTTTGTGTGG
CAGTAACCGTTGGAGGCGGCAATGGCCATTTTGAGTTGGATGTTTTCAAGCCAATGATGATTAAAAATTT
ATGTTACACTCAGGCTGCTGGGGGATGCTTCAGTTTCCTTCACAGAAAACTAAATAGTGGGAATCCGGAC
CAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC229826 representing NM_001167597
Red=Cloning site Green=Tags(s)

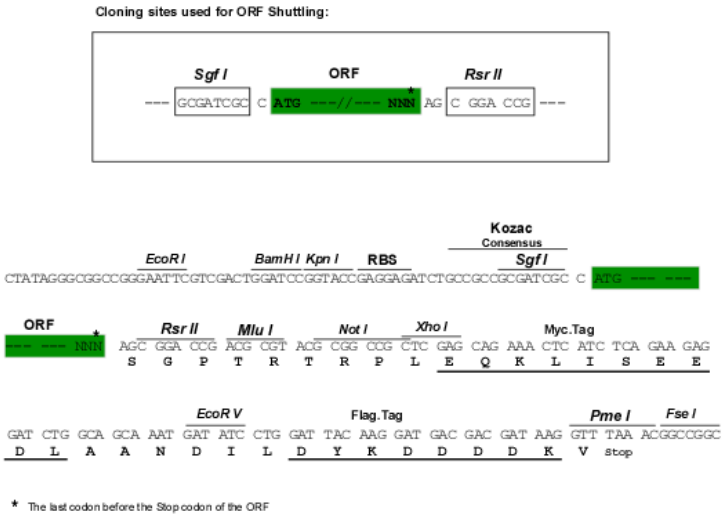
MALQGISVVELSGLAPGPFCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVLDLKQPRGAAVLRRLC
KRSDVLLEPFRRGVMEKLQLGPEILQRENPRLIYARLSGFGQSGSFCRLAGHDINYLALSGGRNSIFKFF
SVENSEIESVGSTSRTEHVGWWSTFLYDLQDSRWGIHGCWSNRTPVLRAADQRSGRTDLAENTTGSSIVP
GKANPRQCEAMAIVAAQVMGFCVAVTVGGGNGHFELDVFKPMMIKNLCYTQAAGGCFSFLHRKLNSGNPD
Q

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8049_b04.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001167597

ORF Size: 843 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_001167597.1, NP_001161069.1

RefSeq ORF: 845 bp

Locus ID: 23600

Cytogenetics: 5p13.2

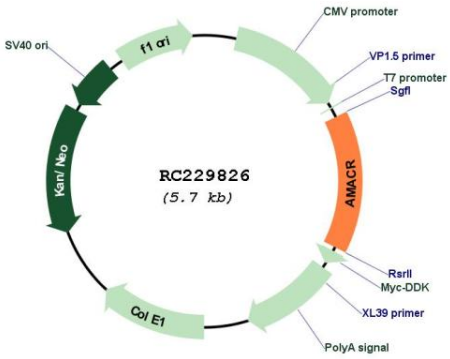
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Primary bile acid biosynthesis

MW: 31.2 kDa

Gene Summary: This gene encodes a racemase. The encoded enzyme interconverts pristanoyl-CoA and C27-bile acylCoAs between their (R)- and (S)-stereoisomers. The conversion to the (S)-stereoisomers is necessary for degradation of these substrates by peroxisomal beta-oxidation. Encoded proteins from this locus localize to both mitochondria and peroxisomes. Mutations in this gene may be associated with adult-onset sensorimotor neuropathy, pigmentary retinopathy, and adrenomyeloneuropathy due to defects in bile acid synthesis. Alternatively spliced transcript variants have been described. Read-through transcription also exists between this gene and the upstream neighboring C1QTNF3 (C1q and tumor necrosis factor related protein 3) gene. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RC229826