

Product datasheet for **SC121263**

AMACR (NM_203382) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMACR (NM_203382) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMACR
Synonyms:	AMACRD; CBAS4; P504S; RACE; RM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_203382, the custom clone sequence may differ by one or more nucleotides

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ATGGCACTGCAGGGCATCTCGGTCGTGGAGCTGTCCGGCCTGGCCCCGGGCCCGTTCTGTGCTATGGTCC
TGGCTGACTTCGGGGCGCGTGTGGTACGCGTGGACCGGCCGGCTCCCGCTACGACGTGAGCCGCTTGGG
CCGGGGCAAGCGCTCGCTAGTGTGGACCTGAAGCAGCCGCGGGAGCCGCCGTGCTGCGGCGTCTGTGC
AAGCGGTCGGATGTGCTGCTGGAGCCCTCCGCCGCGGTGTCATGGAGAACTCCAGCTGGGCCAGAGA
TTCTGCAGCGGAAAATCCAAGGCTTATTTATGCCAGGCTGAGTGGATTTGGCCAGTCAGGAAGCTTCTG
CCGTTAGCTGGCCACGATATCAACTATTTGGCTTTGTCAGGTGGAAGGAACAGCATATTTAAGTCTTT
TCTGTGAAAACAGAAATTGAGTCTGTGGGAAGCACCTCGAGGACAGAACATGTTGGATGGTGGAGCA
CCTTTCTATACGACTTACAGGACAGCAGATGGGAATTCATGGCTTTGGAGCAATAGAACCCAGTTCT
ACGAGCTGCTGATCAAAGGACTTGGACTAAAGTCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_203382 unedited AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGGCACTGGGGAAGCGCC ATGGCACTGCAGGGCATCTCGGTCTGGAGCTGTCCGGCTGGCCCCGGGCCCGTTCTGT GCTATGGTCTGGCTGACTTCGGGGCGCGTGTGGTACGCGTGGACCGGCCCGGCTCCCGC TACGACGTGAGCCGCTTGGGCCGGGCAAGCGCTCGTAGTGTGGACCTGAAGCAGCCG CGGGGAGCCGCCGTGCTGCGGCGTCTGTGCAAGCGGTCCGATGTGCTGCTGGAGCCCTTC CGCCGCGGTGTCATGGAGAACTCCAGCTGGGCCAGAGATTCTGCAGCGGGAAAAATCCA AGGCTTATTTATGCCAGGCTGAGTGGATTGGCCAGTCAGGAAGCTTCTGCCGGTTAGCT GGCCACGATATCAACTATTTGGCTTTGTCAAGTGAAGGAACAGCATATTTAAGTCTTT TCTGTGGAAAACCTCAGAAATCGAGTCTGTGGGAAGCACCTCGAGGACAGAACATGTTGGA TGGTGGAGCACCTTTCTATACGACTTACAGGACAGCAGATGGGGAATTCATGGCTGTTGG AGCAATAGAACCCATTCTACGAGCTGCTGATCAAAGGACTTGGACTAAAGTCTGATGA ACTTCCCAATCAGATGAGCATGGATGATTGGCCAGAAATGAAGAAGATTTGCAGATGTA TTTTGCAAGAGACGAAGCAGAGTGGTGCANATCTTGACGCACAGATGCCTGTGTGACTC GTTCTGACTTTGAGGAGGTGTCTCATGATCACACAGGAACGGNGCTCGTTATCACAGTG AGAGCAGACGGAGCCCCGCTGACTCTGTGTAACACCACCATCTCCTCAAAGGATCT TNCTAGAGACCCTGAGAGTACTGAGATTGATCC
Restriction Sites:	NotI-NotI
ACCN:	NM_203382
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_203382.1 , NP_976316.1
RefSeq Size:	2373 bp
RefSeq ORF:	597 bp
Locus ID:	23600
UniProt ID:	Q9UHK6
Cytogenetics:	5p13.2
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Primary bile acid biosynthesis

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]

Transcript Variant: This variant (2) lacks an exon in the coding region, which results in a frameshift and an early stop codon, compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1. This isoform is also referred to as AMACR IB.