

Product datasheet for RC201163

AMACR (NM 203382) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: AMACR (NM_203382) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: AMACR

Synonyms: AMACRD; CBAS4; P504S; RACE; RM

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC201163 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGAGATCTGCC

GCCGCGATCGCC

ACGAGCTGCTGATCAAAGGACTTGGACTAAAGTC

AGCGGACCG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC

TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201163 protein sequence

Red=Cloning site Green=Tags(s)

MALQGISVMELSGLAPGPFCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVLDLKQPRGAAVLRRLC KRSDVLLEPFRRGVMEKLQLGPEILQRENPRLIYARLSGFGQSGSFCRLAGHDINYLALSGGRNSIFKFF

SVENSEIESVGSTSRTEHVGWWSTFLYDLQDSRWGIHGCWSNRTPVLRAADQRTWTKV

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDK**V**



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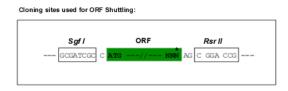
AMACR (NM_203382) Human Tagged ORF Clone - RC201163

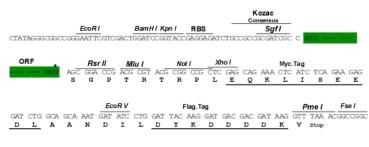
Chromatograms: https://cdn.origene.com/chromatograms/mk6614 g08.zip

Restriction Sites:

Sgfl-Rsrll

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_203382

ORF Size: 594 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 203382.3

RefSeq Size: 3191 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

MW: 22.2 kDa

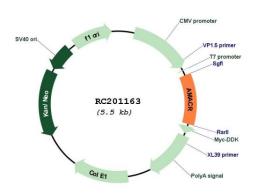
Gene Summary: This gene encodes a racemase. The encoded enzyme interconverts pristanoyl-CoA and C27-

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,

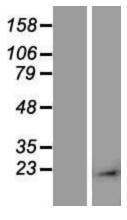
pigmentary retinopathy, and adrenomyeloneuropathy due to defects in bile acid synthesis. Alternatively spliced transcript variants have been described. Read-through transcription also exists between this gene and the upstream neighboring C1QTNF3 (C1q and tumor necrosis

factor related protein 3) gene. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RC201163



Western blot validation of overexpression lysate (Cat# [LY404323]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201163 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).