

## Product datasheet for **RR204630**

### Amacr (NM\_012816) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Amacr (NM\_012816) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Amacr  
**Synonyms:** Da1-8; Marc1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RR204630 representing NM\_012816  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCTGCGTGGCGTCAGGGTCTGGAGCTGGCAGGCCTGGCCCCAGGGCCGTTCTGCGGGATGATCC  
 TGGCGGACTTCGGCGCCGAGGTGGTCTCGTGGACAGACTGGGCTCCGTGAACCACCCAGTCACCTGGC  
 CCGAGGCAAGCGCTCGTGGCGCTGGACCTGAAGCGGTCTCCGGGAGCCGCGGTGTTGCGGCGCATGTGC  
 GCACGCGCGGACGTGTTGCTGGAGCCCTCCGTTGCGGTGTATGGAGAACTCCAGCTTGGCCAGAGA  
 CTCTACAGCAGGACAATCAAAGCTCATCTATGCCAGGCTGAGTGGATTTGGCCAGTCGGGAATTTCTC  
 CAAAGTAGCTGGCCATGACATCAACTATGTGGCTTTGTCAGGTGTCTGTCAAAGATTGGCAGGAGCGGT  
 GAGAACCATACCCCTCCCTGAACCTCCTGGCCGACTTTGGTGGCGGTGGCCTCATGTGCACATTGGGCA  
 TTTTGCTGGCTCTCTTCGAACGCACGCGGTCTGGCCTAGGGCAGGTCAATTGATGCGAACATGGTGAAGG  
 AACGGCATACTTAAGTACTTTCTGTGAAAACTCAAGCCATGGGTCTGTGGGCACAGCCTCGAGGGCAA  
 AACCTGTTAGATGGCGGGCACCTTTCTACACAACCTACAAGACCGCAGATGGGGAGTTCATGGCTGTAG  
 GTGCAATAGAACCCAGTTCTACACACTGCTGCTTAAAGGACTTGGACTTGAGTCTGAGGAACTCCCCAG  
 CCAGATGAGCATAGAAGATTGGCCAGAAGTGAAGAAGAAATTTGCAGATGTGTTTGAAGGAAGACTAAG  
 GCAGAGTGGTGCCAGATCTTTGACGGGACAGATGCATGTGTGACCCAGTGTGACTTTGAGGAGGCC  
 TCCACCACGACACAACAGAGAACGGGGCTCCTTCATCACTGACGAGGAGCAGCATGCAAGCCCGCTCC  
 TGACCCAGCTTTCCAGAACCCCTGCTGTTCTTCTGCCAAAAGGGACCTTCTGTGGGAGAGCACACT  
 GTAGAGGTGCTTAAAGACTATGGATTGAGTCAGGAAAGAGATCCATCAGCTGCACTCGGATAGAATCATTG  
 AAAGTAATAAGCTAAAAGCCAACCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR204630 representing NM\_012816  
Red=Cloning site Green=Tags(s)

MALRGVRVLELAGLAPGPF CGMILADFGAEVVLVDRLGSVNHP SHLARGKRSLALDLKRSPGA AVLRRMC  
 ARADV LLEPFRCGVMEK LQLGPETLQQDNPKLIYARLSGFGQSGIFSKVAGHDINYVALSGVLSKIGRSG  
 ENPYPLNLLADFGGGGLMCTLGILLALFERTRSLGQVIDANMVEGTAYLSTFLWKTQAMGLWAQPRGQ  
 NLLDGGAPFYTTYKTADGEFMAVGAIEPQFYTL LLLKGLGLESEELPSQMSIEDWPEVKKKFADVFARKTK  
 AEWCQIFDGTDACVTPVLTLEEALHHQHNRERGSF ITDEEQHASPRPAPQLSRTPAVPSAKRDP SVGEHT  
 VEVLKDYGFSQEEIHLHSDRIIESNK LKANL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_012816

**ORF Size:** 1146 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\\_012816.2](#), [NP\\_036948.2](#)

**RefSeq Size:** 1542 bp

**RefSeq ORF:** 1149 bp

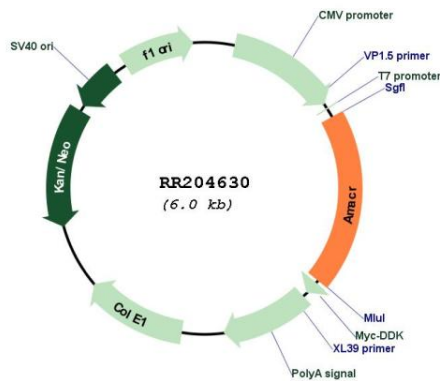
**Locus ID:** 25284

**Cytogenetics:** 2q16

**MW:** 41.8 kDa

**Gene Summary:** enzyme that converts pristanoyl-CoA and C27-bile acyl-CoAs to (S)-stereoisomers; involved in the degradation of the side chain of bile acid intermediates [RGD, Feb 2006]

**Product images:**



Circular map for RR204630