

Product datasheet for **TP313437L**

AMACR (NM_014324) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human alpha-methylacyl-CoA racemase (AMACR), transcript variant 1, 1 mg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >Peptide sequence encoded by RC213437 Blue =ORF Red =Cloning site Green =Tag(s) |
| | <p>MALQGISVMELSGLAPGPFAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVLDLKQPRGAAVLRRLL CKRSDVLLPEFRRGVMKQLQGPAILQRENPRLIYARLSGFGQSGSFCRLAGHDINYLALSGVLSKIGR SGENPYAPLNLLADFAGGGLMCALGIIMALFDRTRTDKGQVIDANMVEGTAYLSSFLWKTQKSSLWEAP RGQNMLDGGAPFYTTYRTADGEFMAVGAIEPQFYELLIKGLGLKSELPNQMSMDDWPDKKKFADVFA KKTAEWCQIFDGTDACVTPVLTFEEVHHHDHNGKERSFITSEEQDVSPRPAPLLLNTPAIPSFKRDPF IGEHTTEILEEFGFSREEIYQLNSDKIIESNKVKASL SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| | Recombinant protein using RC213437 also available, TP313437 |
| Tag: | C-Myc/DDK |
| Predicted MW: | 42.2 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Bioactivity: | ELISA capture for autoantibodies (PMID: 28191285) |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_055139](#)

Locus ID: 23600

UniProt ID: [Q9UHK6](#)

RefSeq Size: 2534

Cytogenetics: 5p13.2

RefSeq ORF: 1155

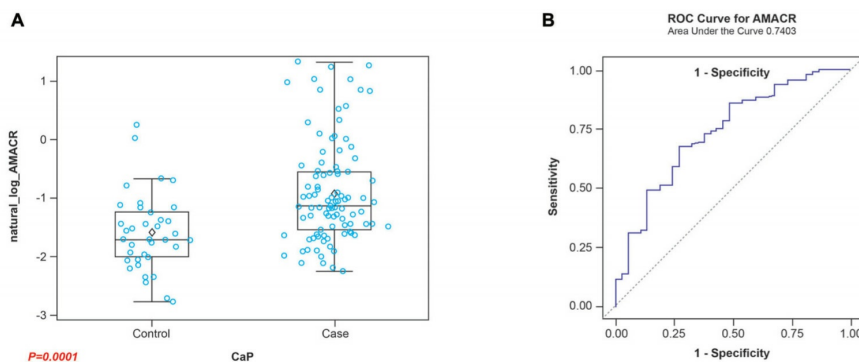
Synonyms: AMACRD; CBAS4; P504S; RACE; RM

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]

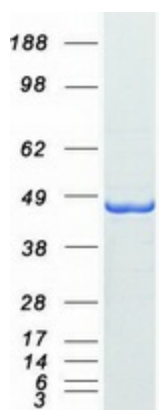
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Primary bile acid biosynthesis

Product images:



Boxplots of the reactivities of the autoantibodies in ELISA against AMACR (OriGene [TP313437]) in the sera of prostate cancer cases and healthy controls. Panel B shows the ROC curve for AMACR. Figure cited from Genes Cancer, PMID: 28191285



Coomassie blue staining of purified AMACR protein (Cat# [TP313437]). The protein was produced from HEK293T cells transfected with AMACR cDNA clone (Cat# [RC213437]) using MegaTran 2.0 (Cat# [TT210002]).