

## Product datasheet for **TP313437**

### AMACR (NM\_014324) Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human alpha-methylacyl-CoA racemase (AMACR), transcript variant 1, 20 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>Peptide sequence encoded by RC213437 Blue=ORF Red=Cloning site Green=Tag(s)
	 MALQGISVMELSLAPGPFAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVLDLKQPRGAAVLRRRL CKRSDVLLPEFRRGVMEKLQLGPEILQRENPLIYARLSGFGQSGSFCRLAGHDINYLALSGVLSKIGR SGENPYAPLNLLADFAGGGLMCALGIIMALFDRTRTDKGQVIDANMVEGTAYLSSFLWKTQKSSLWEAP RGQNMLDGGAPFYTTYRTADGEFMAVGAIEPQFYELLIKGLGLKSELPNQMSMDDWPDKKKFADVFA KKTAEWCQIFDGTDACVTPVLTFFEEVHHHDHNGKERSFITSEEQDVSPRPAPLLLNTPAIPSFKRDPF IGEHTTEILEEFGFSREEIYQLNSDKIIESNKVKASL SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
	Recombinant protein using RC213437 also available, <a href="#">TP313437</a>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	42.2 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Bioactivity:</b>	ELISA capture for autoantibodies (PMID: <a href="#">28191285</a> )
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	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:** 1148

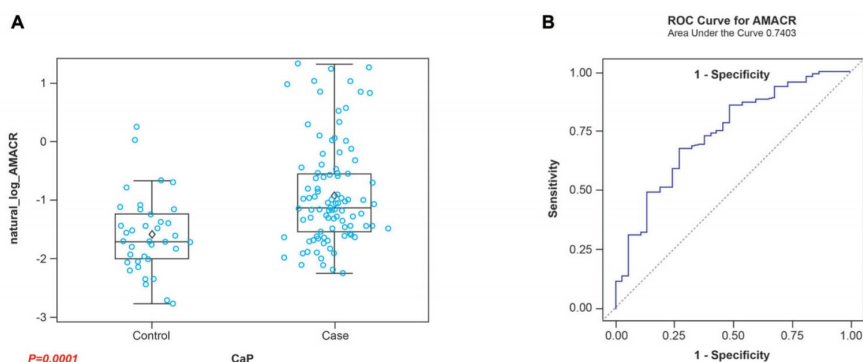
**Synonyms:** AMACRD; CBAS4; P504S; RACE; RM

**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]

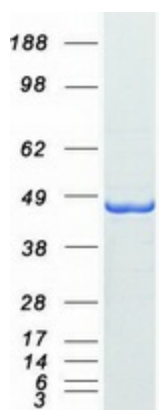
**Protein Families:** Druggable Genome

**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]).