

## Product datasheet for **TP313437M**

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

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human alpha-methylacyl-CoA racemase (AMACR), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>Peptide sequence encoded by RC213437 Blue=ORF Red=Cloning site Green=Tag(s)
	 MALQGISVMELSLAPGPFAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVLDLKQPRGA AVLRRLL CKRSDVLLPEFRRGVMKQLQGP EILQRENPR LIYARLSGFGQSGSFCRLAGHDINYLALSGVLSKIGR SGENPYAPLNLLADFAGGGLMCALGIIMALFDRTRTDKGQVIDANMVEGTAYLSSFLWKTQKSSLWEAP RGQNMLDGGAPFYTTYRTADGEFMAVGAIEPQFYELLIKGLGLKSDLPNQMSMDDWP EMKKKFADVFA KKTKA EW CQIFDGT DACVTPVLT FEEVHH DHNKERGSFITSEEQDVSPRPAPLLLNTPAIP SFKRDPF IGEHT EEI LEEFGFSREEIYQLNSDKIIESNKVKASL SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
	Recombinant protein using RC213437 also available, <a href="#">TP313437</a>
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: <a href="#">28191285</a> )
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

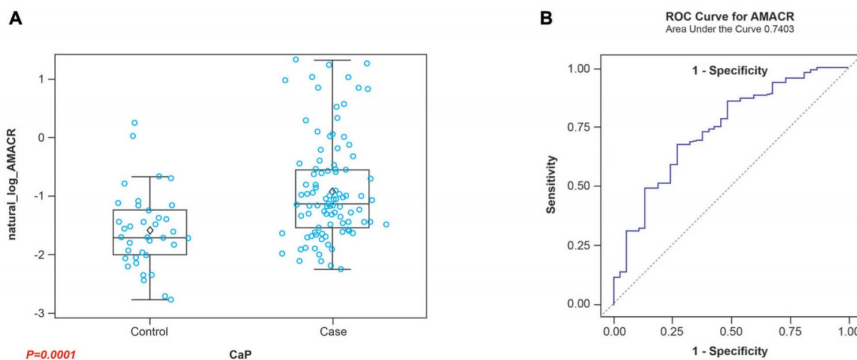
**Synonyms:** AMACRD; CBAS4; P504S; RACE; RM

**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]

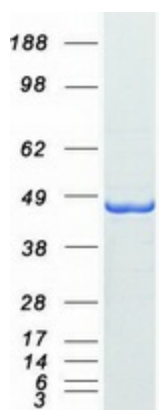
**Protein Families:** Druggable Genome

**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]).