

Product datasheet for RC213437L3

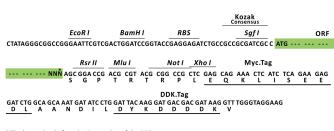
AMACR (NM_014324) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	AMACR (NM_014324) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	AMACR
Synonyms:	AMACRD; CBAS4; P504S; RACE; RM
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC213437).
Restriction Sites:	Sgfl-RsrII
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf I ORF Rsr II GCG ATC GC C ATG // NNN AG[C GGA CCG]



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

ACCN: ORF Size: NM_014324 1155 bp



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AMACR (NM_014324) Human Tagged Lenti ORF Clone – RC213437L3	
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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 014324.4</u>
RefSeq Size:	2534 bp
RefSeq ORF:	1149 bp
Locus ID:	23600
UniProt ID:	<u>Q9UHK6</u>
Cytogenetics:	5p13.2
Domains:	CAIB-BAIF
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Primary bile acid biosynthesis
MW:	42.7 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]

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