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 datasheet for RC223277L3V

Aminoadipate aminotransferase (AADAT) (NM_016228) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Aminoadipate aminotransferase (AADAT) (NM_016228) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Aminoadipate aminotransferase
Synonyms:	KAT2; KATII; KYAT2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_016228
ORF Size:	1275 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC223277).`
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.
RefSeq:	NM_016228.3
RefSeq Size:	2326 bp
RefSeq ORF:	1278 bp
Locus ID:	51166
UniProt ID:	Q8N5Z0
Cytogenetics:	4q33
Protein Pathways:	Lysine biosynthesis, Lysine degradation, Metabolic pathways, Tryptophan metabolism

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MW: 47.2 kDa

Gene Summary: This gene encodes a protein that is highly similar to mouse and rat kynurenine aminotransferase II. The rat protein is a homodimer with two transaminase activities. One activity is the transamination of alpha-aminoadipic acid, a final step in the saccaropine pathway which is the major pathway for L-lysine catabolism. The other activity involves the transamination of kynurenine to produce kynurenine acid, the precursor of kynurenic acid which has neuroprotective properties. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]