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 RC200524L3V

Adenylosuccinate Lyase (ADSL) (NM_000026) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Adenylosuccinate Lyase (ADSL) (NM_000026) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ADSL
Synonyms:	AMPS; ASASE; ASL
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_000026
ORF Size:	1452 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC200524).`
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_000026.1
RefSeq Size:	1565 bp
RefSeq ORF:	1455 bp
Locus ID:	158
UniProt ID:	P30566
Cytogenetics:	22q13.1
Domains:	lyase_1
Protein Families:	Druggable Genome

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Protein Pathways: Alanine, aspartate and glutamate metabolism, Metabolic pathways, Purine metabolism

MW: 54.9 kDa

Gene Summary: The protein encoded by this gene belongs to the lyase 1 family. It is an essential enzyme involved in purine metabolism, and catalyzes two non-sequential reactions in the de novo purine biosynthetic pathway: the conversion of succinylaminoimidazole carboxamide ribotide (SAICAR) to aminoimidazole carboxamide ribotide (AICAR) and the conversion of adenylosuccinate (S-AMP) to adenosine monophosphate (AMP). Mutations in this gene are associated with adenylosuccinase deficiency (ADSLD), a disorder marked with psychomotor retardation, epilepsy or autistic features. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2015]