

OriGene Technologies, Inc.

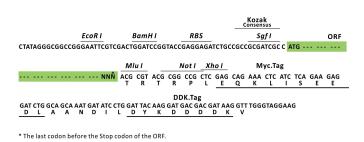
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Product datasheet for RC223159L3

P5CS (ALDH18A1) (NM_001017423) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P5CS (ALDH18A1) (NM_001017423) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	P5CS
Synonyms:	ADCL3; ARCL3A; GSAS; P5CS; PYCS; SPG9; SPG9A; SPG9B
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(RC223159).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I



--- GCG ATC GC ATG --- // --- NNN ACG CGT ---

ACCN: NM_001017423 ORF Size: 2379 bp



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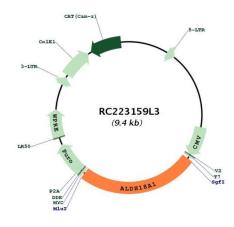
ORIGENE P5C	S (ALDH18A1) (NM_001017423) Human Tagged Lenti ORF Clone – RC223159L3
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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 Metho	 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. 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 001017423.1</u>
RefSeq Size:	3464 bp
RefSeq ORF:	2382 bp
Locus ID:	5832
UniProt ID:	<u>P54886</u>
Cytogenetics:	10q24.1
Protein Families:	Druggable Genome
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
MW:	87.1 kDa

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SCS (ALDH18A1) (NM_001017423) Human Tagged Lenti ORF Clone – RC223159L3

Gene Summary:This gene is a member of the aldehyde dehydrogenase family and encodes a bifunctional
ATP- and NADPH-dependent mitochondrial enzyme with both gamma-glutamyl kinase and
gamma-glutamyl phosphate reductase activities. The encoded protein catalyzes the reduction
of glutamate to delta1-pyrroline-5-carboxylate, a critical step in the de novo biosynthesis of
proline, ornithine and arginine. Mutations in this gene lead to hyperammonemia,
hypoornithinemia, hypocitrullinemia, hypoargininemia and hypoprolinemia and may be
associated with neurodegeneration, cataracts and connective tissue diseases. Alternatively
spliced transcript variants, encoding different isoforms, have been described for this gene.
[provided by RefSeq, Jul 2008]

Product images:



Circular map for RC223159L3

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