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Product datasheet for RC221682L4V

Leucyl tRNA synthetase (LARS) (NM_020117) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Leucyl tRNA synthetase (LARS) (NM_020117) Human Tagged ORF Clone Lentiviral Particle
Symbol:	LARS1
Synonyms:	hr025Cl; HSPC192; ILFS1; LARS; LEURS; LEUS; LFIS; LRS; PIG44; RNTLS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_020117
ORF Size:	3528 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221682).
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_020117.8, NP_064502.8
RefSeq Size:	4248 bp
RefSeq ORF:	3531 bp
Locus ID:	51520
UniProt ID:	Q9P2J5
Cytogenetics:	5q32
Domains:	tRNA-synt_1
Protein Families:	Druggable Genome

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Protein Pathways: Aminoacyl-tRNA biosynthesis, Valine, leucine and isoleucine biosynthesis

MW: 134.3 kDa

Gene Summary: This gene encodes a cytosolic leucine-tRNA synthetase, a member of the class I aminoacyl-tRNA synthetase family. The encoded enzyme catalyzes the ATP-dependent ligation of L-leucine to tRNA(Leu). It is found in the cytoplasm as part of a multisynthetase complex and interacts with the arginine tRNA synthetase through its C-terminal domain. A mutation in this gene was found in affected individuals with infantile liver failure syndrome 1. Alternatively spliced transcript variants of this gene have been observed. [provided by RefSeq, Dec 2015]