

OriGene Technologies, Inc.

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Product datasheet for SC114279

Leucyl tRNA synthetase (LARS) (NM_016460) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Leucyl tRNA synthetase (LARS) (NM_016460) Human Untagged Clone
Tag:	Tag Free
Symbol:	Leucyl tRNA synthetase
Synonyms:	hr025Cl; HSPC192; ILFS1; LARS; LEURS; LEUS; LFIS; LRS; PIG44; RNTLS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016460, the custom clone sequence may differ by one or more nucleotides



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5' Read Nucleotide Sequence:	<pre>>OriGene 5' read for NM_016460 unedited NCGCGATAAATATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCTTTA GTTTCGTGGGAGGCCTGGCATCCCCCGAGAGGGAGGGGAAAGGTAACCACTCCTTTGTGGA GGTCGCCAGGGTCATTGTCGTGGATTTGCACAGTCGGCTGGCGGGCG</pre>
Restriction Sites:	Notl-Notl
ACCN:	NM_016460
Insert Size:	5000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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 016460.1, NP 057544.1</u>
RefSeq Size:	722 bp
RefSeq ORF:	483 bp
Locus ID:	51520
UniProt ID:	<u>Q9P2J5</u>
Cytogenetics:	5q32
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis, Valine, leucine and isoleucine biosynthesis

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SC114279 CRIGENE Leucyl tRNA synthetase (LARS) (NM_016460) Human Untagged Clone – SC114279

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]
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region
compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note:
This RefSeq record was created from transcript and genomic sequence data to make the
sequence consistent with the reference genome assembly. The genomic coordinates used for
the transcript record were based on transcript alignments.

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