

Product datasheet for **SC114717**

LARS2 (NM_015340) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LARS2 (NM_015340) Human Untagged Clone
Tag:	Tag Free
Symbol:	LARS2
Synonyms:	HLASA; LEURS; mtLeuRS; PRLTS4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114717 sequence for NM_015340 edited (data generated by NextGen Sequencing)

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ATGGCTTCTGTTTGGCAGAGATTGGGTTTTATGCCTCTCTTCTGAAAAGACAGCTAAAT
GGTGGGCCAGATGTCATCAAGTGGGAAAGGAGAGTAATCCCAGGATGTACCAGAAGCATC
TACAGTGCCACGGGAAAGTGGACAAAAGAGTATACATTGCAGACAAGAAAGGATGTTGAG
AAATGGTGGCATCAACGAATAAAAGAACAGGCCTCCAAAATTTTCAGAAGCTGATAAATCG
AAGCCAAAATTTTACGTGCTTTCCATGTTCCCTTATCCTTCTGGTAAGCTGCACATGGGC
CATGTGCGTGTCTACACCATCAGCGACACCATAGCACGGTTCAGAAAGATGAGAGGGATG
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GAGAGGAATCTACATCCACAAAGTTGGACACAAAGTAATATTAACACATGAGGAAACAG
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CTGGACTTCACATTAAGGTTTATGGGCAAGCCACGGGGCAAAGCTGACTGCCTATACG
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GATGCTTTTTCTAGCCCTGACTCAGAAAGCCCGGGGAAGAGAGTGGGTGGAGACGTGACA
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ACCCATTTACAGAGGACTTCTCACTGAATTTCTGCAATTTCTCAGCTGATGGGACTCAGC
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CGGGACCAGGACAAAGTCCACGAATTTGTTCTTCAAAGCGAGCTGGGTGTCAGGCTTTTG
CAAGGACGAAGCATCAAGAAGTCTTCTTTCCCGAGAAGTGCCTCATCAACTTCTGTG
GTCAAGATTGA
    
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Clone variation with respect to NM_015340.3
 1008 c=>t;1053 t=>c;1455 g=>a;1983 g=>a;2169 t=>c;2358 a=>g

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_015340 unedited</p> <pre> ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGATGATTTGAGGGCCTTCTCA CCTTCTGAAGAATGGCTTCTGTTTGGCAGAGATTGGGTTTTATGCCTCTCTTCTGAAAA GACAGCTAAATGGTGGGCCAGATGTCATCAAGTGGGAAAGGAGAGTAATCCCGGATGTA CCAGAAGCATCTACAGTCCACGGGAAAGTGGACAAAAGAGTATACATTGCAGACAAGAA AGGATGTTGAGAAATGGTGGCATCAACGAATAAAGAACAGGCCTCCAAAATTTCAGAAG CTGATAAATCGAAGCCAAAATTTTACGTGCTTTCCATGTTCCCTTATCCTTCTGGTAAGC TGACATAGGGCCATGTGGGTGTCTACACCATCAGCGACACCATAGCACGGTTCAGAAAGA TGAGAGGGATGCAGGTCATCAACCCCATGGGATGGGATGCTTTTGGATTGCCTGCTGAAA ATGCCGCAGTCGAGAGGAATCTACATCCACAAAGTTGGACACAAAGTAATATTAACACA TGAGGAAACAGCTTGATCGTCTGGCCTGTGTTTTCAGCTGGGATAGGGAAATAACTACGT GTTTGCCAGATTACTACAAGTGGACTCAGTATCTTTTAACTGTATGAGGCTGGGC TGGCCTATCAAAGGAGGCCCTGGTAACTGGGACCCAGTGGATCAAACAGTGTGTTGCA ATGAGCAGGTGGATGAACATGGCTGTTTCATGGNCGTCTGGAGCAAGGTGGAACAGAAGTA CCTCAGACATGGTTTATTAAGACACCGCTTTATGCAAGCCATGCAGNACGCGTTGGCAGA CCTTTCAGATGGGTATGGATANAAGGCATGCAGCCACTGGATTNNGGACTGTGTGGGCTG CCTGNACTTACATTAAGGTCATGGGCAGCCACGGCGATACTGACTGTATCGNCANC CTGAGCCATTTT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_015340 unedited</p> <pre> GCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTCATAGATGATAAACATTTTATTACAC TAAAAAAGTCATCTGTTAACTGCTGAATGCAGGGGGACCACATGTGAGGCTACTTCAGA AAAATGGCATCAGATAACATATATAGATTTCTGGCATTATAAAATGGCTAGATTCTCCCC TACCTTCCCTCATTAAATATTAATCAGTGGCTTAGGTCAGTTCTAGTGGGAACACTTAAT TGCTGACTTCACATAAAACCAGGATTAGCCTAATGTGCCAATGGTATGAGTCCATTCCCTG GCCATCTTCCCAACAGCCAGACCCTGTGGCTTGACACCCGGAGGCAACATCTGGGGGGC CTCAGTCCACTCCTCTGTGGTGTGAGCTTCTCCTAATAAAGTGGCTCTGGAGTACAT CAACAATGGTGGCATTGCCATCTGGGGCCACATGAGCCCTCTGGGGCGTGTGCATCCC TACTGGGCTGCGGTGGGGCTCTGAGGTTGGGACCAGCAGCCTGAGCCTGGTTCCACTTCA CTACACAGCAAATGTATACCCAAGGGAGTGGTTATGACTTGTCTCCTCATTATGTC AGGAAGTGGTGCCTTGCCTGGGATCCTGTGTGTCAGAACCACAGCAGGCCTGGGAGGCAC GTCCAGCTGGGGGTTGGGGAGGACAGCCNTGCATGACAGAGCTGGGGAGTGGTGGGGACA CAGGCAGAGGAACCAGCCCTGCCTGCCCTTTTGTCAAAGCAACTTCAGAAGATCCCTGT GTACATTTCCACATATGGNTATTTGAACATTTCTAAAGACTTCCTCATCAGCCTGAGG CAAAGAACCATCCCTACATTTGAGGCTAGTTACAGTTCAGTGGCTGCACATTGCACTGA GTCTGCAGTCTAGCTGGCCTAAATCCCGAAACGCCTAAGCAAGCCATCCGATCCGAGC TCCTGCTGTTGAGGGCATGGTCTTGTGCCACGCAGGCTTGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_015340
Insert Size:	4260 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:	<ol style="list-style-type: none">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:	NM_015340.3 , NP_056155.1
RefSeq Size:	4203 bp
RefSeq ORF:	2712 bp
Locus ID:	23395
UniProt ID:	Q15031
Cytogenetics:	3p21.31
Domains:	tRNA-synt_1
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis, Valine, leucine and isoleucine biosynthesis
Gene Summary:	This gene encodes a class 1 aminoacyl-tRNA synthetase, mitochondrial leucyl-tRNA synthetase. Each of the twenty aminoacyl-tRNA synthetases catalyzes the aminoacylation of a specific tRNA or tRNA isoaccepting family with the cognate amino acid. [provided by RefSeq, Jul 2008]