LARS2 cDNA Clone – Leucyl-Trna Synthetase 2, Mitochondrial (Human)

PRODUCT OVERVIEW

Product Name	LARS2, cDNA Clone
Full Product Name	LARS2 cDNA Clone
Product Gene Name	LARS2 cdna clone
Sequence	atggcttctg tttggcagag attgggtttt tatgcctctc ttctgaaaag acagctaaat ggtgggccag atgtcatcaa gtgggaaagg agagtaattc ccggatgtac cagaagcatc tacagtgcca cgggaaagtg gacaaaagag tatacattgc agacaagaaa ggatgttgag aaatggtggc atcaacgaat aaaagaacag gcctccaaaa tttcagaagc tgataaatcg aagccaaaat tttacgtgct ttccatgttc ccttatcctt ctggtaagct gcacatgggc catgtgcgtg tctacaccat cagcgacacc atagcacggt tccagaagat gagagggatg caggtcatca accccatggg atgggatgct tttggattgc ctgctgaaaa tgccgcagtc gagaggaatc tacatccaca aagttggaca caaagtaata ttaaacacat gaggaaacag cttgatcgtc tgggcctgtg tttcagctgg gatagggaaa taactacgtg tttgccagat tactacaagt ggactcagta tctctttatt aaactgtatg aggctgggct ggcctatcaa aaggaggccc tggttaactg ggacccagtg gatcaaacag tgcttgccaa tgagcaggtg gatgaacatg gctgttcatg gcgttctgga gcaaaggtgg aacagaagta cctcagacaa tggtttatta agacaaccgc ttatgcaaag gccatgcagg acgcgttggc agaccttcca gaatggtatg gaataaaagg catgcaagcc cactggattg gggactgtgt gggctgccac ctggacttca cattaaaggt tcatgggcaa gccacgggcg aaaagctgac tgcctatacg gccacccctg aagccattta tggcacctcc cacgtggcca tctcgcccag ccacagactc ctacatgggc acagctctct gaaggaagcc ttgaggatgg cccttgtccc tggcaaagat tgcctcacgc ctgtaatggc tgtgaacatg ctcacccagc aggaggtccc tgtcgttatt ttggccaaag ctgacttgga aggctctctg gattcaaaaa taggaattcc cagtactagc tcagaggaca ccatcttagc ccaaaccctg ggcctggcct actctgaagt cattgaaact ttgccagatg gcacagagag actgagcagc tctgctgagt tcacaggtat gacccggcag gatgcttttc tagccctgac tcagaaagcc cgggggaaga gagtgggtgg agacgtgaca agtgataaac tgaaagactg gctgatttca cggcagcggt actggggcac accaatcccc attgtccact gcccagtctg tggccccaca cctgtgcccc tggaggactt gcctgtgacc ctgcccaaca tcgcatcttt cactggcaag ggaggccccc cactggccat ggcttcagag tgggtgaact gctcctgccc aaggtgcaag ggagcagcca agagagagac agacacgatg gataccttg ttgattctgc ttggtactac ttcagataca ctgaccctca taatccacac agccctttta acacagcagt ggccgattac tggatgcctg tggatttgta cattggaggg aaagaacatg ccgtcatgca cttgttctat gcaagattct ttagtcattt ttgccatgat caaaaaatgg ttaaacatag ggagcctttt cataagctgc tggcccaagg ccttatcaag gggcagacat tccgcctacc atctggacag tatctacaga gagaggaagt ggatctcaca ggttccgttc ctgttcatgc aaaaacgaaa gagaagttag aggtgacgtg ggagaagatg agtaagtcca aacacaacgg ggtggaccca gaggaagttg tggagcagta tgggatcgac acgattcggc tctacatcct ttttgctgcc cctcctgaga aggatatctt gtgggatgtg aaaactgatg ctctccctgg ggtgctgaga tggcaacaac gactgtggac cttgacaact cggtttattg aggccagggc ttctgggaag tctccccagc ctcagctgct gagtaacaag gagaaagccg aggccaggaa gctctgggag tacaagaact ccgtcatctc tcaggtgacc acccatttca cagaggactt ctcactgaat tctgcaattt ctcagctgat gggactcagc aatgccctct cgcaagcctc tcagagcgtc attctccaca gccccgagtt tgaggatgct ttgtgtgccc tgatggtgat ggctgctcca ctggcccctc atgtaacctc agagatctgg gcaggcctgg cgctggtgcc gaggaagctc tgtgcccact acacttggga tgccagtgtg ctgctccagg catggcctgc tgtggacccg gagttcctgc agcagcctga ggttgtccag atggcagttc tgatcaacaa taaagcttgt ggcaaaattc ctgtgcccca acaagttgcc cgggaccagg acaaagtcca cgaatttgtt cttcaaagcg agctgggtgt caggcttttg caaggacgaa gcatcaagaa gtccttcctt tccccgagaa ctgccctcat caacttcctg gtgcaagatt ga
Molecular Weight	101,976 Da
OMIM	604544
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LARS2 cdna clone	MBS1278503 is a cDNA clone targeting LARS2.
Other Notes	Small volumes of LARS2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LARS2. It may not necessarily be applicable to this product.

NCBI GI #	34190294

NCBI GeneID	23395
NCBI Accession #	BC025989
UniProt Related Accession #	Q15031
NCBI Official Full Name	Homo sapiens leucyl-tRNA synthetase 2, mitochondrial, mRNA
NCBI Official Synonym Full Names	leucyl-tRNA synthetase 2, mitochondrial
NCBI Official Symbol	LARS2
NCBI Official Synonym Symbols	HLASA; LEURS; PRLTS4; mtLeuRS
UniProt Protein Name	Probable leucine--tRNA ligase, mitochondrial
UniProt Synonym Protein Names	Leucyl-tRNA synthetase; LeuRS
Protein Family	Probable leucine--tRNA ligase
UniProt Gene Name	LARS2
UniProt Synonym Gene Names	KIAA0028; LeuRS
UniProt Entry Name	SYLM_HUMAN
NCBI Protein Information	probable leucine--tRNA ligase, mitochondrial
NCBI Summary for LARS2	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]
UniProt Comments for LARS2	LARS2: 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] Protein type: Mitochondrial; Translation; Amino Acid Metabolism - valine, leucine and isoleucine biosynthesis; EC 6.1.1.4; Ligase Chromosomal Location of Human Ortholog: 3p21.3 Cellular Component: cytosol; mitochondrial matrix; mitochondrion Molecular Function: leucine-tRNA ligase activity Biological Process: leucyl-tRNA aminoacylation; tRNA aminoacylation for protein translation Disease: Hydrops, Lactic Acidosis, And Sideroblastic Anemia; Perrault Syndrome 4
Research Articles on LARS2	**1.** analysis of the CP1 domain in human mitochondrial leucyl-tRNA synthetase
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