

Product datasheet for **SC324499**

LIAS (NM_006859) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: LIAS (NM_006859) Human Untagged Clone
Tag: Tag Free
Symbol: LIAS
Synonyms: HGCLAS; HUSSY-01; LAS; LIP1; LS; PDHLD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006859.2
 ATCCCTCAACCCCTGCACCTAGTCCTAAAGAGGAAATGTCTCTACGCTGCGGGGAT
 GCAGCCCGCACCCCTGGGCCCCGGGTATTTGGGAGATATTTTTGCAGCCAGTCAGACCG
 TTAAGCTCCTTGCCAGATAAAAAAAGGAACTCCTACAGAATGGACCAGACCTTCAAGAT
 TTTGTATCTGGTGATCTTGCAGACAGGACACCTGGGATGAATATAAAGGAAACCTAAAA
 CGCCAGAAAGGAGAAAGGTTAAGACTACCTCCATGGCTAAAGACAGAGATTTCCATGGGG
 AAAAATTACAATAAACTGAAAAATACTTTGCGGAATTTAAATCTCCATACAGTATGTGAG
 GAAGCTCGATGTCCCAATATTGGAGAGTGTGGGGAGGTGGAGAATATGCCACCGCCACA
 GCCACGATCATGTTGATGGGTGACACATGTACAAGAGGTTGCAGATTTTGTCTGTTAAG
 ACTGCAAGAAATCCTCCTCCACTGGATGCCAGTGAGCCCTACAATACTGCAAAGGCAATT
 GCAGAATGGGGTCTGGATTATGTTGCTGACATCTGTGGATCGAGATGATATGCCTGAT
 GGGGGAGCTGAACACATTGCAAAGACCGTATCATATTTAAAGGAAAGGAATCCAAAAATC
 CTGTGGAGTGTCTTACTCCTGATTTTCGAGGTGATCTCAAAGCAATAGAAAAAGTTGCT
 CTGTCCAGGATTAGATGTGTATGCACATAATGTAGAAACAGTCCCAGGAAATACAGAGTAAG
 GTTCGTGATCCTCGGGTCAATTTTATCAGTCCCTACGTGACTGAAACATGCCAAGAAG
 GTTCAGCCTGATGTTATTTCTAAAACATCTATAATGTTGGGTTTAGGCGAGAATGATGAG
 CAAGTATATGCAACAATGAAAGCACTTCGTGAGGCAGATGTAGACTGCTTGACTTTAGGA
 CAATATATGCAGCCAACAAGGCGTCACCTTAAGGTTGAAGAATATATTACTCTGAAAAA
 TTCAAATACTGGGAAAAAGTAGGAAATGAACTTGGATTTTATTACTGCAAGTGGCCCT
 TTGGTGGCTTCTTCATATAAAGCAGGTGAATTTTCTGAAAAATCTAGTGCTAAAAAGA
 AAAACAAAAGACCTCTAAAACCTCAACAAGACCTTCAAGATCACAGAAATTTTTAAAAATT
 TGATTCCAGTTAATAACAGAGGTGGTGCCAGAATGCCTGGACTGCAGTGGATGTACCCCA
 CCTCTTTGCTTAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_006859



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_006859.2</u> , <u>NP_006850.2</u>
RefSeq Size:	1743 bp
RefSeq ORF:	1119 bp
Locus ID:	11019
UniProt ID:	<u>O43766</u>
Cytogenetics:	4p14
Protein Pathways:	Lipoic acid metabolism, Metabolic pathways
Gene Summary:	<p>The protein encoded by this gene belongs to the biotin and lipoic acid synthetases family. Localized in the mitochondrion, this iron-sulfur enzyme catalyzes the final step in the de novo pathway for the biosynthesis of lipoic acid, a potent antioxidant. The deficient expression of this enzyme has been linked to conditions such as diabetes, atherosclerosis and neonatal-onset epilepsy. Alternative splicing occurs at this locus, and several transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Aug 2020]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>