

Product datasheet for RC235592

LIAS (NM 001278592) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: LIAS (NM_001278592) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: LIAS

Synonyms: HGCLAS; HUSSY-01; LAS; LIP1; LS; PDHLD

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC235592 representing NM_001278592
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCTCTACGCTGCGGGGATGCAGCCCGCACCCTGGGGCCCCGGGTATTTGGGAGATATTTTTGCAGCC CAGTCAGACCGTTAAGCTCCTTGCCAGATAAAAAAAAAGGAACTCCTACAGAATGGACCAGACCTTCAAGA TTTTGTATCTGGTGATCTTGCAGACAGGAGCACCTGGGATGAATATAAAGGAAACCTAAAACGCCAGAAA GGAGAAAGGTATGTGAGGAAGCTCGATGTCCCAATATTGGAGAGTGTTGGGGAGAGATATATGCCAC

CGCCACAGCCACGATCATGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235592 representing NM_001278592

Red=Cloning site Green=Tags(s)

MSLRCGDAARTLGPRVFGRYFCSPVRPLSSLPDKKKELLQNGPDLQDFVSGDLADRSTWDEYKGNLKRQK

GERYVRKLDVPILESVGEVENMPPPQPRSW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

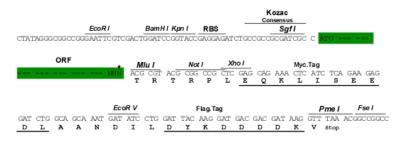
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



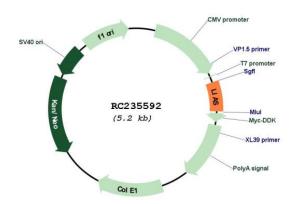
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001278592

ORF Size: 300 bp

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

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OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: 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 001278592.1</u>, <u>NP 001265521.1</u>

RefSeq Size: 610 bp
RefSeq ORF: 303 bp
Locus ID: 11019
UniProt ID: 043766
Cytogenetics: 4p14

Protein Pathways: Lipoic acid metabolism, Metabolic pathways

MW: 11.8 kDa

Gene Summary: 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 neonatalonset epilepsy. Alternative splicing occurs at this locus, and several transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Aug 2020]