

# Lipoyl synthase 1, chloroplastic (LIP1P-1), Recombinant Protein

Cat RP13773

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)  
Species Oryza sativa subsp. japonica (Rice)

## Full Product Name

Recombinant Oryza sativa subsp. japonica Lipoyl synthase 1, chloroplastic (LIP1P-1)

## Product Gene Name

LIP1P-1 recombinant protein

## Product Synonym Gene Name

LIP1P-1

## Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

## Sequence

AEAAPPAPAP AARRAAGPYT GRDPEVKKPA WLRQRAAQGE KYARLRESIG ELKLNTVCVE AQCPNIGECW  
NGGGGAGGEG DGIATATIMV LGDTCTRGR FCAVKTSNKP PPPDPLEPLN TALAVASWGV DYVVLTSVDR  
DDLDPGGSSH FAQTVRALKE LKPGILVECL TSDFRGDLEA VSALANGLD VFAHNIETVR SLQRIVRDPR  
AGYDQSLAVL KHAKSCKEGM ITKSSIMLGL GETDEEVKQA MIDLRAIGVD ILTLGQYLQP TERHLTVREY  
VTPEKFQFWK EYGESVGFY VASGPLVRSS YRAGELFVQN LVRNNKPKLP ASS

## Sequence Positions

38-370, Full length protein

## Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

## Host

E Coli or Yeast or Baculovirus or Mammalian Cell

## Molecular Weight

39,940 Da

## Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

## NCBI Accession #

XP\_015623802.1

## NCBI GI #

1002225784

## NCBI GenBank Nucleotide #

XM\_015768316.1

## NCBI GeneID

4325595

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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Cat *RP13773*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1*

**NCBI Official Full Name**  
*mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*, chloroplastic

## NCBI Official Symbol

LOC4325595

## NCBI Official Synonym Symbols

LIP1P-1; OsJ\_03597; P0665A11.4

## NCBI Protein Information

lipoyl synthase 1, chloroplastic

## UniProt Gene Name

LIP1P-1

## UniProt Synonym Gene Names

LS 1; Lip-syn 1; LIP1p 1

## UniProt Protein Name

Lipoyl synthase 1, chloroplastic

## UniProt Synonym Protein Names

Lipoate synthase 1

## UniProt Primary Accession #

Q5ZAQ2

## UniProt Secondary Accession #

A2ZY80

## UniProt Related Accession #

Q5ZAQ2

## UniProt Comments

Catalyzes the radical-mediated insertion of two sulfur atoms into the C-6 and C-8 positions of the octanoyl moiety bound to the lipoyl domains of lipoate-dependent enzymes, thereby converting the octanoylated domains into lipoylated derivatives.

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