

Recombinant Full Length Human LONP1 Protein, GST-tagged

Cat. No. LONP1-5956HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human LONP1 full-length ORF (NP_004784.2, 1 a.a. - 959 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	959 amino acids
Description	This gene encodes a mitochondrial matrix protein in the Lon family of ATP-dependent proteases. A similar E. coli protein regulates gene expression by targeting specific regulatory proteins for degradation. This protein binds a specific sequence in the light and heavy chain promoters of the mitochondrial genome which are involved in regulation of DNA replication and transcription. [provided by RefSeq]
Molecular Mass	132.9 kDa
AA Sequence	<p>MAASTGYVRLWGAARCWVLRPMLAAAGGRVPTAAGAWLLRGQRTCDASPPWAL WGRGPAIGGQWRGFWEASSRGGGAFSGGEDASEGGAEEGAGGAGGSAGAGEG PVITALTPMTIPDVFPHLPLIAITRNPVFPFRFIKIIIEVKNKLVELLRRKVRLAQPYVGVF LKRDDSNESDVVESLDEIYHTGTFAQIHEMQDLGDKLRMIVMGHRRVHISRQLEVEP EEPEAENKHKPRRKS KR GKKEAEDELSARHPAELAMEPTPELPAEVL MVEVENVH EDFQVTEEVKALTAIEVKTIRDIILNPLYRESVLQMMQAGQRVVDNPIYLSDMGAAL TGAESHELQDVLEETNIPKRLYKALSLLKKEFELSKLQQRLGREVEEKIKQTHRKYLL QEQLKIIKKELGLEKDDKDAIEEKFRERLKELVVPHKVM DVVDEELSKLGLLDNHSSE</p>

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FNVTRNYLDWLTSIPWKGYSNENLDLARAQAVLEEDHYGMEDVKKRILEFIAVSQLR
 GSTQGKILCFYGGPPGVGKTSIARSIARALNREYFRFSVGGMTDVAEIKGHRRTYVGA
 MPGKIIQCLKKTKTENPLILIDEVDKIGRGYQGGPSSALLELLDPEQANFLDHYLDVP
 VDLSKVLFICTANVTDTIPEPLRDRMEMINVSGYVAQEKLAI AERYLVPQARALCGLD
 ESKAKLSSDVLTLLIKQYCRESGVRNLQKQVEKVLKRSAYKIVSGEAE SVEVTPENL
 QDFVGKPVFTVERMYDVTTPGVVMGLAWTAMGGSTL FVETSLRRPQDKDAKGDK
 DGSLEVTGQLGEVMKESARIA YTFARAFLMQHAPANDYLV TSHIHLHVPEGATPKDG
 PSAGCTIVTALLSLAMGRPVRQNLAMTGEVSLTGKILPVGGIKEKTIAAKRAGVTCIVL
 PAENKKDFYDLAAFITEGLEVHFVEHYREIFDIAFPDEQAEALAVER

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name
 LONP1 lon peptidase 1, mitochondrial [Homo sapiens]

Official Symbol
 LONP1

Synonyms
 LONP1; lon peptidase 1, mitochondrial; protease, serine, 15 , PRSS15; lon protease homolog, mitochondrial; hLON; LonHS; PIM1; serine protease 15; protease, serine, 15; Lon protease-like protein; hLON ATP-dependent protease; mitochondrial lon peptidase 1; mitochondrial lon protease-like protein; mitochondrial ATP-dependent

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protease Lon; LON; LONP; PRSS15; MGC1498;

Gene ID 9361

mRNA Refseq NM_004793

Protein Refseq NP_004784

MIM 605490

UniProt ID P36776

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