

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	MAASTGYVRLWGAARCWVLRPMLAAAGGRVPTAAGAWLLRGQRTCDASPPWAL WGRGPAIGGQWRGFWEASSRGGGAFSGGEDASEGGAEAGAGGAGGSAGAGEG PVITALTPMTIPDVFPHLPLIAITRNPVFPRFIKIIIEVKNNKLVELLRRKVRLAQPYVGVF LKRDDSNESDVVESLDEIYHTGTFAQIHEMQDLGDKLRMIVMGHRRRVHISRQLEVEP EEPEAENKHKPRRKSKRGKKEAEDELSARHPAELAMEPTPELPAEVLMMVEVENVVH EDFQVTEEVKALTAEIVKTIRDIILNPLYRESVLQMMQAGQRVVDNPIYLSDMGAAL TGAESHELQDVLEETNIPKRLYKALSLLKKEFELSKLQQR LGREVEEEKIKQTHRKYLL QEQLKIIKKELGLEKDDKDAIEEKFRERLKVLPKHVMDVDEELSKLGLLDNHSSE

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FNVTRNYLDWLTSIPWKGYSNENLDLARAQAVLEEDHYGMEDVKKRILEFIAVSQLR
 GSTQGKILCFYGPVGKTSIARSIARALNREYFRFSVGGMTDVAEIKGHRRTYVGA
 MPGKIIQCLKKTKTENPLILIDEVDKIGRGYQGDPSSALLELLDPEQNaNFLDHYLDVP
 VDLSKVLFICTANVTDTIPEPLRDRMEMINVSGYVAQEKLAI AERYLVPQARALCGLD
 ESKAKLSSDVLTLLIKQYCRESGVRNLQKQVEKVLKRSAYKIVSGEAESEVTPENL
 QDFVGKPVFTVERMYDVTTPGVVMGLAWTAMGGSTLFVETSLRRPQDKDAKGDK
 DGSLEVTGQLGEVMKESARIAYTFARAFLMQHAPANDYLVTSIHHLHVPEGATPKDG
 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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