

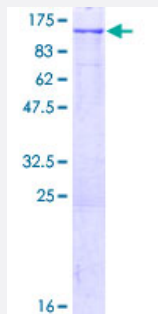
Full-Length

LONP1 (Human) Recombinant Protein (P01)

Catalog # H00009361-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human LONP1 full-length ORF (NP_004784.2, 1 a.a. - 959 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAASTGYVRLWGAARCWVLRRLMLAAAGGRVPTAAGAWLLRGQRTCDASPPWALWGRGPAIG
GQWRGFWEASSRGGGAFSGGEDASEGGAEEGAGGAGGSAGAGEGPVITALTPMTIPDVPHL
PLIAITRNPVFPRFIKIEVKNNKLVELLRRKVRLAQPVGVLKRDDSNESDVVESLDEMYHTGTFAQ
IHEMQDLGDKLRMMVMGHRVHISRQLEVEPEEPEAENKHKPRRKSARGKKEAEDELSARHPAE
LAMEPTPELPAEVLMEVENVHEDFQVTEEVKALTAENVKTIRDIALNPLYRESVLQMMQAGQR
VVDNPMYLSDMGAALTGAESHELQDVLEETNIPKRLYKALSLLKKEFELSKLQQRLGREVEEKIKQT
HRKYLLQEQLKIKKELGLEKDDKDAIEEFKFRERLRELVPKHVMDVDEELSKLGLLDNHSSEFN
VTRNYLDWLTSIPWKGYSNENLDLARAQAVLEEDHYGMEDVKKRILEFIASQLRGSTQGKILCFY
GPPGVGKTSIARSIARALNREYFRFSVGGMTDVAEIKGHRRTYVGAMPGKIIQCLKKTCTENPLILID
EVDKIGRGYQGDPSALLELLDPEQANFLDHYLDVPVDLSKVLFICTANVTDTIPEPLRDRMEMI
NVSGYVAQEKLAIERYLPQARALCGLDESKAKLSSDVLTLIKQYCRESGVRNLQKQVEKVLR
KSAYKIVSGEASVEVTPENLQDFVGKPVFTVERMYDVTTPGVVMGLAWTAMGGSTLFFVETSLR
RPQDKDAKGDKDGSLEVTGQLGEVMKESARIAYTFARAFLMQHAPANDYLVTSIHHLHVPEGATP
KDGPASAGCTVTALLSLAMGRPVRQNLAMTGEVSLTGKILPVGGIKEKTIAAKRAGVTCMLPAENK
KDFYDLAAAFITEGLEVHFVEHYREIFDIAFPDEQAEALAVR

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

132.9

Interspecies Antigen Sequence

Mouse (87); Rat (88)

Preparation Method[in vitro wheat germ expression system](#)**Purification**

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

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

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

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

Applications

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

Gene Info — LONP1

Entrez GeneID[9361](#)**GeneBank Accession#**[NM_004793.2](#)**Protein Accession#**[NP_004784.2](#)**Gene Name**

LONP1

Gene Alias

LON, LONP, LonHS, MGC1498, PIM1, PRSS15, hLON

Gene Description

lon peptidase 1, mitochondrial

Omim ID[605490](#)**Gene Ontology**[Hyperlink](#)

Gene Summary

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]

Other Designations

LON protease|Lon protease-like protein|hLON ATP-dependent protease|mitochondrial lon peptidase 1|protease, serine, 15