

Recombinant Full Length Human CLPB Protein, GST-tagged

Cat. No. CLPB-1886HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CLPB full-length ORF (NP_110440.1, 1 a.a. - 707 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	707 amino acids
Description	This gene belongs to the ATP-ases associated with diverse cellular activities (AAA+) superfamily. Members of this superfamily form ring-shaped homo-hexamers and have highly conserved ATPase domains that are involved in various processes including DNA replication, protein degradation and reactivation of misfolded proteins. All members of this family hydrolyze ATP through their AAA+ domains and use the energy generated through ATP hydrolysis to exert mechanical force on their substrates. In addition to an AAA+ domain, the protein encoded by this gene contains a C-terminal D2 domain, which is characteristic of the AAA+ subfamily of Caseinolytic peptidases to which this protein belongs. It cooperates with Hsp70 in the disaggregation of protein aggregates. Allelic variants of this gene are associated with 3-methylglutaconic aciduria, which causes cataracts and neutropenia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]
Molecular Mass	105.1 kDa
AA Sequence	MLGSLVLR RKALAPRLLLRLRSPTLRGHGGASGRNVTTGSLGEPQWLRVATGGRP

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GTSPALFSGRGAATGGRQGGRFDTKCLAAATWGRLPGPEETLPGQDSWNGVPSR
 AGLGMCALAAALVVHCYSKSPSNKDAALLEAARANNMQEVSRLLESEGADVNAKHRL
 GWTALMVAAINRNNNSVVQVLLAAGADPNLGDDFSSVYKTAKEQGIHSLEDGGQDGA
 SRHITNQWTSALEFRRWLGLPAGVLITREDDFNNRLNNRASFKGCTALHYAVLADD
 YRTVKELLDGGANPLQRNEMGHTPLDYAREGEVMKLLRTSEAKYQEKQRKREAE
 RRRFPLEQRLKEHIIGQESAIATVGAAIRRKENGWYDEEHPLVFLGSSGIGKTELA
 KQTAKYMHKDAKKGFIRLDMSEFQERHEVAKFIGSPPGYVGHEEGGQLTKKLKQCP
 NAVVLFDEVDKAHPDVLTIMLQLFDEGRITDGKGKTIDCKDAIFIMTSNVASDEIAQH
 ALQLRQEALEMSRNRIAENLGDVQISDKITISKNFKENVIRPILKAHFRRDEFLGRINEI
 VYFLPFCHSELIQLVNKELNFWAKRAKQRHNITLLWDREVADVLVDGYNVHYGARS
 KHEVERRVQNQLAAAYEQDLLPGGCTLRITVEDSDKQLLKSPPELSPQAEKRLPKLR
 LEIIDKDSKTRRLDIRAPLHPEKVCNTI

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**

CLPB ClpB caseinolytic peptidase B homolog (E. coli) [Homo sapiens]

Official Symbol

CLPB

Synonyms

CLPB; ClpB caseinolytic peptidase B homolog (E. coli); caseinolytic peptidase B

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protein homolog; FLJ13152; HSP78; SKD3; suppressor of potassium transport defect
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Gene ID 81570

mRNA Refseq NM_030813

Protein Refseq NP_110440

MIM 616254

UniProt ID Q9H078

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