

Recombinant Human ELAC2 Protein, GST-tagged

Cat. No. ELAC2-3229H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ELAC2 full-length ORF (NP_060597.3, 1 a.a. - 826 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene has a C-terminal domain with tRNA 3' processing endoribonuclease activity, which catalyzes the removal of the 3' trailer from precursor tRNAs. The protein also interacts with activated Smad family member 2 (Smad2) and its nuclear partner forkhead box H1 (also known as FAST-1), and reduced expression can suppress transforming growth factor-beta induced growth arrest. Mutations in this gene result in an increased risk of prostate cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]
Molecular Mass	118.6 kDa
AA Sequence	MWALCSLLRSAAGRTMSQGRTISQAPARRERPRKDPLRHLRTREKRGPSGCSGGP NTVYLQVVAAGSRDSGAALYVFSEFNRYLFNCGEGVQRLMQEHKLKVARLDNIFLT RMHWSNVGGLSGMILTLKETGLPKCVLSGPPQLEKYLEAIKIFSGPLKGIELAVRPHS APEYEDEMTVYQIPIHSEQRRGKHQPWQSPERPLSRLSPERSSDSELNENEPHLP HGVSQRRGVRDSSLVVAFICKLHLKRGNFLVLKAKEMGLPVGTAAPIIAAVKDGKS ITHEGREILAEELCTPPDPGAAFVVVECPDESFIQPICENATFQRYQGKADAPVALVV

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HMAPASVLVDSRYQQWMERFGPDTQHLVLNENCASVHNLRSKIQTQLNLIHPDIF
 PLLTSFRCKKEGPTLSVPMVQGECLLKYQLRPRREWQRDAITCNPEEFIVEALQLP
 NFQQSVQEYRRSAQDGPAPAEKRSQYPEIIFLGTGSAIPMKIRNVSATLVNISPDTS
 LLDCGEGTFGQLCRHYGDQVDRVLGTLAAVFSVSHLHADHHTGLPSILLQRERALASL
 GKPLHPLLVVAPNQLKAWLQQYHNQCQEVLLHHISMIPAKCLQEGAEISSPAVERLIS
 SLLRTCDLEEFQTCLVRHCKHAFGCALVHTSGWKVVYSGDTMPCEALVRMGKDAT
 LLIHEATLEDGLEEEAVEKTHSTTSQAISVGMRMNAEFIMLNHFSQRYAKVPLFSPNF
 SEKVGVAFDHMKVCFGDFPTMPKLIPPLKALFAGDIEEMEERREKRELQRVRAALLS
 RELAGGLEDGEPPQQKRAHTEEPQAKKVRAQ

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

ELAC2 *elaC* homolog 2 (*E. coli*) [*Homo sapiens*]

Official Symbol

ELAC2

Synonyms

ELAC2; *elaC* homolog 2 (*E. coli*); *elaC* (*E. coli*) homolog 2; zinc phosphodiesterase
 ELAC protein 2; FLJ10530; HPC2; tRNase Z (long form); RNase Z 2; tRNase Z 2;
 ribonuclease Z 2; tRNA 3 endonuclease 2; *elaC* homolog protein 2; hereditary prostate
 cancer protein 2; putative prostate cancer susceptibility protein HPC2/ELAC2; ELC2;

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FLJ36693; FLJ42848;

Gene ID 60528

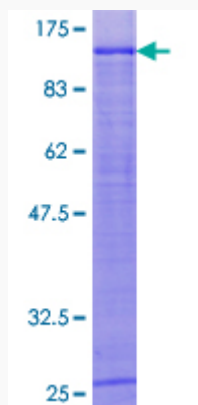
mRNA Refseq NM_001165962

Protein Refseq NP_001159434

MIM 605367

UniProt ID Q9BQ52

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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