

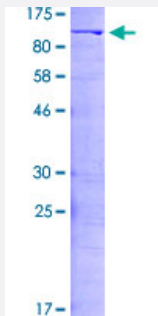
Full-Length

## ILF3 (Human) Recombinant Protein (P02)

Catalog # H00003609-P02

Size 25 ug, 10 ug

### Applications



### Specification

#### Product Description

Human ILF3 full-length ORF ( NP\_004507.2, 1 a.a. - 702 a.a.) recombinant protein with GST-tag at N-terminal.

#### Sequence

MRPMRIFVNDDRHVMAKHSSVYPTQEELEAVQNMVSHTERALKAVSDWIDEQEKGSSEQAESD  
NMDVPPEDDSKEGAGEQKTEHMTRTLRGVMRVGLVAKGLLLKGDLDLELVLLCKEKPTTALLDK  
VADNLAIQLAAVTEDKYEILQSVDDAAVIKNTKEPPLSLTIHLTSPVVREEMEKVLAGETLSVNDPP  
DVLDRQKCLAALASLRHAKWFQARANGKSCVMIRVLRDLCTRVPTWGPLRGWPLELLCEKSIG  
TANRPMGAGEALRRVLECLASGMMPDGSGYDPCEKEATDAIGHLDRQQREDITQSAQHALRLA  
AFGQLHKVLGMDPLPSKMPKKPKNENPVDYTVQIPPSTTYAITPMKRPMEEDEGEEKSPSKKKKI  
QKKEEKAEPQAMNALMRLNQLKPLQYKLVSQTGPVHAPIFTMSVEVDGNSFEASGPSKKTAK  
LHVAVKVLQDMGLPTGAEGRDSSKGEDSAEETAKPAVVAPAPVVEAVSTPSAAFPDATAEQ  
GPILTKHGKNPVMELNEKRRGLKYELISETGGSHDKRFVMEVEVDGQKFQAGSNKKVAKAYAA  
LAALEKLFDPDTPLALDANKKKRAPVPVRGGPKFAAKPHNPGFGMGGPMHNEVPPPPNLRGRGR  
GGSIRGRGRGRGFGGANHGGYMNAGAGYGSYGYGGSATAGYSDFFTDCYGYHDFGSS

#### Host

Wheat Germ (in vitro)

#### Theoretical MW (kDa)

102.85

#### Interspecies Antigen Sequence

Mouse (92)

#### 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 — ILF3

|                     |                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">3609</a>                                                                                |
| GeneBank Accession# | <a href="#">NM_004516.2</a>                                                                         |
| Protein Accession#  | <a href="#">NP_004507.2</a>                                                                         |
| Gene Name           | ILF3                                                                                                |
| Gene Alias          | CBTF, DRBF, DRBP76, MMP4, MPHOSPH4, MPP4, NF-AT-90, NF110, NF90, NFAR, NFAR-1, NFAR2, TCP110, TCP80 |
| Gene Description    | interleukin enhancer binding factor 3, 90kDa                                                        |
| Omim ID             | <a href="#">603182</a>                                                                              |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                           |

**Gene Summary**

This gene encodes a double-stranded RNA (dsRNA) binding protein that complexes with other proteins, dsRNAs, small noncoding RNAs, and mRNAs to regulate gene expression and stabilize mRNAs. This protein was first discovered to be a subunit of the nuclear factor of activated T-cells (NFAT); a transcription factor required for T-cell expression of interleukin 2. NFAT is a heterodimer of 45 kDa and 90 kDa proteins, the larger of which is the product of this gene. These proteins have been shown to affect the redistribution of nuclear mRNA to the cytoplasm. Knockdown of NF45 or NF90 protein retards cell growth; possibly by inhibition of mRNA stabilization. In contrast, an isoform (NF110) of this gene that is predominantly restricted to the nucleus has only minor effects on cell growth when its levels are reduced. Alternative splicing results in multiple transcript variants encoding distinct isoforms

**Other Designations**

M-phase phosphoprotein 4|double-stranded RNA-binding protein, 76 kD|dsRNA binding protein NFAR-2/MPP4|interleukin enhancer binding factor 3|nuclear factor associated with dsRNA|nuclear factor of activated T-cells, 90 kD|translational control protein 80

**Disease**

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