

# Recombinant human LZTFL1 protein

Catalog Number: ATGP2929

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-299aa

### UniProt No.

Q9NQ48

### NCBI Accession No.

NP\_065080

### Alternative Names

Leucine zipper transcription factor-like protein 1, Leucine zipper transcription factor-like protein 1, BBS17

## PRODUCT SPECIFICATION

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### Molecular Weight

37 kDa (322aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

LZTFL1 is a ubiquitously expressed protein that localizes to the cytoplasm. This protein interacts with Bardet-Biedl Syndrome (BBS) proteins and, through its interaction with BBS protein complexes, regulates protein trafficking to the ciliary membrane. Nonsense mutations in this gene cause a form of Bardet-Biedl Syndrome; a ciliopathy characterized in part by polydactyly, obesity, cognitive impairment, hypogonadism, and kidney failure. LZTFL1 may also function as a tumor suppressor; possibly by interacting with E-cadherin and the actin cytoskeleton and thereby regulating the transition of epithelial cells to mesenchymal cells. Recombinant human

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LZTFL1 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

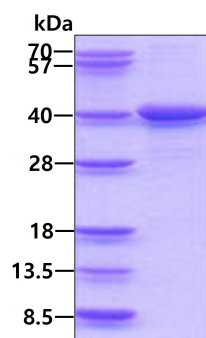
<MGSSHHHHHH SSGLVPRGSH MGS>MAELGLN EHHQNEVINY MRFARSKRGL RLKTVDSFCQ DLKESRLVED  
TFTIDEVSEV LNGLQAVVHS EVESELINTA YTNVLLLRQL FAQAEKWYLYK LQTDISELEN RELLEQVAEF EKAEITSSNK  
KPILDVTKPK LAPLNEGTA ELLNKEILRL QEENEKLSR LKTIEIQATN ALDEKSKLEK ALQDLQLDQG NQKDFIKAQD  
LSNLENTVAA LKSEFQKTLN DKTENQKSLE ENLATAKHDL LRVQEQLHMA EKELEKKFQQ TAAYRNMKEI LTKKNDQIKD  
LRKRLAQYEP ED

## General References

Wei Q., et al. (2010) *Cancer Res.* 70 (7), 2942-2950

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.