

# Recombinant Full Length Human BFSP1 Protein, GST-tagged

Cat. No. BFSP1-1617HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human BFSP1 full-length ORF ( AAH41483, 1 a.a. - 540 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	540 amino acids
<b>Description</b>	More than 99% of the vertebrate ocular lens is comprised of terminally differentiated lens fiber cells. Two lens-specific intermediate filament-like proteins, CP49 (also known as phakinin) and the protein product of this gene, filensin, are expressed only after fiber cell differentiation has begun. Both proteins are found in a structurally unique cytoskeletal element that is referred to as the beaded filament (BF). Mutations in this gene are the cause of autosomal recessive cortical juvenile-onset cataract. Multiple transcript variants encoding different isoforms have been found for this gene.
<b>Form</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Molecular Mass</b>	84.92 kDa
<b>AA Sequence</b>	MYENECECQL LLKEMLERLN KEADEALLHN LRLQLEAQFL QDDISAAKDR HKKNLLEVQT YISILQQIIH TTPPASIVTS GMREEKLLTE REVAALRSQL EEGREVLSHL QAQRVELQAQ TTITLEQAIKS AHECYDDEIQ LYNEQIETLR KEIEETERVL EKSSYDCRQL AVAQQTLKNE LDRYHRIIEI EGNRLTSAFI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ETPIPLFTQS HGVSLSTGSG GKDLTRALQD ITAAKPRQKA LPKNVPRRKE  
 IITKDKTNGA LEDAPLKGLE DTKLVQVVLK EESESKFESE SKEVSPLTQE  
 GAPEDVPDGG QISKGFGKLY RKVKEKVRSP KEPETPTELY TKERHVLVTG  
 DANYVDPRFY VSSITAKGGV AVSVAEDSVL YDGQVGPSPE SPKPPLNGQ  
 VGLQEKEGQ PIDQQPIDKE IEPDGAEELEG PEEKREGEER DEESRRPCAM  
 VTPGAEPSI PEPPKPAADQ DGAEVLGTRS RSLPEKGPPK ALAYKTVEVV  
 ESIEKISTES IQTYEETAVI VETMIGKTKS DKKKSGEKSS

**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** [BFSP1 beaded filament structural protein 1, filensin \[ Homo sapiens \]](#)

**Official Symbol** [BFSP1](#)

**Synonyms** BFSP1; beaded filament structural protein 1, filensin; filensin; CP94; CP115; LIFL H; cytoskeletal protein, 115 KD; lens intermediate filament-like heavy; lens fiber cell beaded-filament structural protein CP 115; LIFL-H

**Gene ID** [631](#)

**mRNA Refseq** [NM\\_001161705](#)

**Protein Refseq** [NP\\_001155177](#)

**MIM** [603307](#)

**UniProt ID** [Q12934](#)

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