

Recombinant Human BFSP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BFSP2-1494H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BFSP2 MS Standard C13 and N15-labeled recombinant protein (NP_003562) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	More than 99% of the vertebrate ocular lens is comprised of terminally differentiated lens fiber cells. Two lens-specific intermediate filament-like proteins, the protein product of this gene (phakinin), and 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 have been associated with juvenile-onset, progressive cataracts and Dowling-Meara epidermolysis bullosa simplex.
Molecular Mass	45.9 kDa
AA Sequence	MSERRVVVDLPTSASSSMPLQRRRASFRGPRSSSSLESPPASRTNAMSGLV RAPG VYVGTAPSGCIGGLGARVTRRALGISSVFLQGLRSSGLATVPAPGLERD HGAVEDL GGCLVEYMAKVHALEQVSQELETQLRMHLESKATRS GNW GALRASWASSCQQVG EAVLENARLMLQTETIQAGADDFKERYENEQPFRKAAEEEEINSLYKVIDEANLTKMDL ESQIESLKEELGSLSRNYEEDVKLLHKQLAGCELEQMDAPIGTGLDDILETIRIQWER DVEKNRVEAGALLQAKQQA EVAHMSQTQEEKLAAALRVELHNTSCQVQSLQAETE

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

	SLRALKRGLENTLHDAKHWHDMELQNLGAVVGRLEAELREIRAEAEQQQERAHLL ARKCQLQKDVASYHALLDREESGTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	BFSP2 beaded filament structural protein 2 [Homo sapiens (human)]
Official Symbol	BFSP2
Synonyms	BFSP2; beaded filament structural protein 2; CP47; CP49; LIFL-L; CTRCT12; PHAKOSIN;
Gene ID	8419
mRNA Refseq	NM_003571
Protein Refseq	NP_003562
MIM	603212

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UniProt ID

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