

Product datasheet for RC219996

BFSP2 (NM_003571) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BFSP2 (NM_003571) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BFSP2
Synonyms:	CP47; CP49; CTRCT12; LIFL-L; PHAKOSIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219996 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGAGAGGCGAGTGGTAGTGGACTTGCCACCAGTGCCAGCTCCAGCATGCCCTCCAGAGGCGCA
GGGCGTCCTTCAGGGGGCCACGGTCATCATCCTCCCTGGAGAGCCCCCAGCCTCCAGGACCAATGCCAT
GAGTGGCCTTGTCCGAGCACCCGGGTCTATGTAGGAACAGCACCCAGTGGGTGCATAGGTGGCTGGGT
GCCCGTGTGACCCGCCGGGCCCTCGGCATCAGCAGTGTCTTCCTTCAGGGCTCGGGAGCTCAGGCCTGG
CCACCGTCCGGCTCCAGGTTTGGAGAGGGACCATGGTGTGTTGAGGACCTAGGGGGCTGCCTGGTGGA
ATATATGGCCAAAGTGCACGCCCTTGAGCAAGTCAGTCAGGAGCTGAAAACAACACTGCGGATGCACCTG
GAGAGCAAAGCCACACGCTCGGGAAACTGGGGTGCCCTACGGGCTTCCTGGGCCAGCAGCTGCCAGCAGG
TGGGTGAGGCAGTCTTGAAAAATGCCCGGCTCATGCTGCAGACAGAACTATCCAGGCCGGAGCAGATGA
CTTTAAAGAGAGATATGAAAAATGAGCAGCCATTCGAAAGGCAGCAGAAGAGGAAATTAACCTCTGTAT
AAAGTCATTGATGAGGCTAATTTGACTAAAAATGGACCTGGAGAGTCAAATAGAAAGTCTGAAAGAAGAAC
TTGGCTCTCTATCAAGAAACTATGAAGAGGATGTGAAGCTGTGCACAAACAGTTGGCAGGGTGTGAGCT
GGAACAAATGGATGCTCCATTGGCACTGGTCTGGACGACATCCTTGAGACGATCAGAATTCAGTGGGAG
AGAGATGTTGAAAAGAACCAGGGTGGAGGCAGGAGCCCTGCTCAAGCTAAGCAACAGCGGAGGTGGCCC
ACATGTCCAGACCCAGGAGGAGAAGCTGGCAGCTGCCCTCAGGGTGGAGTTACACAACACTTCGTGCCA
AGTCCAGAGCCTCCAGGCTGAGACAGAATCCTTACGTGCCCTGAAACGAGGCCTGGAGAACACCTTGAC
GATGCCAAGCACTGGCATGACATGGAGCTCCAGAACCTGGGCGCTGTGGTCCGGCCGGCTGGAGGCGGAGC
TCAGGGAAATCCGAGCGGAGGCGGAGCAGCAGCAACAGGAGCGCGCATCTGCTGGCCGCAAGTGCCA
GCTGCAGAAGGACGTGGCGTCTACCACGCCCTGCTGGACAGGGAGGAGAGCGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_003571.3](#), [NP_003562.1](#)

RefSeq Size: 1595 bp

RefSeq ORF: 1248 bp

Locus ID: 8419

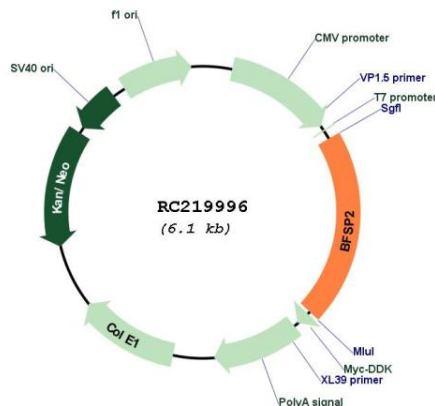
UniProt ID: [Q13515](#)

Cytogenetics: 3q22.1

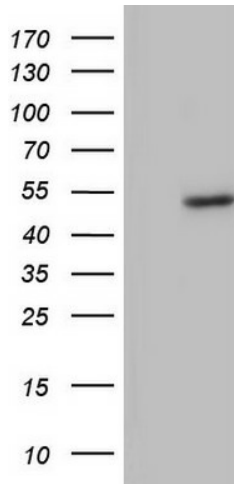
MW: 45.9 kDa

Gene Summary: 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. [provided by RefSeq, Jun 2009]

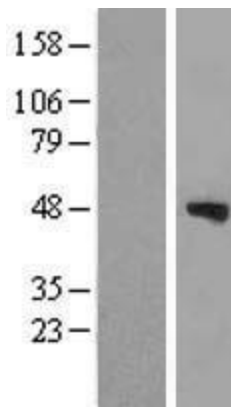
Product images:



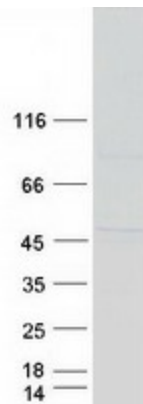
Circular map for RC219996



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BFSP2 (Cat# RC219996, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BFSP2 (Cat# [TA804351]). Positive lysates [LY418579] (100ug) and [LC418579] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418579]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219996 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BFSP2 protein (Cat# [TP319996]). The protein was produced from HEK293T cells transfected with BFSP2 cDNA clone (Cat# RC219996) using MegaTran 2.0 (Cat# [TT210002]).