

Product datasheet for **RG219996**

BFSP2 (NM_003571) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BFSP2 (NM_003571) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BFSP2
Synonyms: CP47; CP49; CTRCT12; LIFL-L; PHAKOSIN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG219996 representing NM_003571
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTGAGAGGCGAGTGGTAGTGGACTTGCCACCAGTGCCAGCTCCAGCATGCCCTCCAGAGGCGCA
 GGGCGTCTTCAGGGGGCCACGGTCATCATCCTCCCTGGAGAGCCCCCAGCCTCCAGGACCAATGCCAT
 GAGTGGCCTTGTCCGAGCACCCGGGTCTATGTAGGAACAGCACCCAGTGGGTGCATAGGTGGCTGGGT
 GCCCGTGTGACCCGCCGGGCCCTCGGCATCAGCAGTGTCTTCCTCAGGGCCTGCGGAGCTCAGGCCTGG
 CCACCGTGCCGGCTCCAGGTTTGGAGAGGGACCATGGTGTGTTGAGGACCTAGGGGGCTGCCTGGTGG
 ATATATGGCCAAAGTGCACGCCCTTGAGCAAGTCAGTCAGGAGCTGGAAACAACTGCGGATGCACCTG
 GAGAGCAAAGCCACACGCTCGGGAACTGGGGTGCCTACGGGCTTCCTGGGCCAGCAGCTGCCAGCAGG
 TGGGTGAGGCAGTCTTGAAAAATGCCCGGCTCATGCTGCAGACAGAACTATCCAGGCCGGAGCAGATGA
 CTTTAAAGAGAGATATGAAAAATGAGCAGCCATTCGAAAGGCAGCAGAAGAGGAAATTAAGTCTCTGTAT
 AAAGTCATTGATGAGGCTAATTTGACTAAAAATGGACCTGGAGAGTCAAATAGAAAGTCTGAAAGAAGAA
 TTGGCTCTCTATCAAGAACTATGAAGAGGATGTGAAGCTGTGCACAAACAGTTGGCAGGGTGTGAGCT
 GGAACAAATGGATGCTCCATTGGCACTGGTCTGGACGACATCCTTGAGACGATCAGAATCAGTGGGAG
 AGAGATGTTGAAAAGAACCAGGGTGGAGGCAGGAGCCCTGCTCAAGCTAAGCAACAGGCGGAGGTGGCCC
 ACATGTCCAGACCCAGGAGGAGAAGCTGGCAGCTGCCCTCAGGGTGGAGTTACACAACACTTCGTGCCA
 AGTCCAGAGCCTCCAGGCTGAGACAGAATCCTTACGTGCCTGAAACGAGGCCTGGAGAACACCTTGAC
 GATGCCAAGCACTGGCATGACATGGAGCTCCAGAACCTGGGCGCTGTGGTCCGGCCGGCTGGAGGCGGAGC
 TCAGGGAAATCCGAGCGGAGGCGGAGCAGCAGCAACAGGAGCGCGCATCTGCTGGCCGCAAGTGCCA
 GCTGCAGAAGGACGTGGCGTCTACCACGCCCTGCTGGACAGGGAGGAGAGCGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219996 representing NM_003571
 Red=Cloning site Green=Tags(s)

MSERRVVVDLPTSASSSMPLQRRRASFRGPRSSSSLEPPASRTNAMSGLVRAPGVVYGTAPSGCIGGLG
 ARVTRRALGISSVFLQGLRSSLATVPAPGLERDGHAVEDLGGCLVEYMAKVHALEQVSQLETLQLRMHL
 ESKATRSNGWALRASWASSCQQVGEAVLENARLMLQTEITIQAGADDFKERYENEQPFKAAEEEEINSLY
 KVIDEANLTKMDLESQIESLKEELGSLSRNYEEDVKLLHKQLAGCELEQMDAPIGTGLDDILETIRIQWE
 RDVEKNRVEAGALLQAKQQAQAEVAHMSQTQEEKLAAALRVELHNTSCQVQSLQAETESLRALKRGLENTLH
 DAKHWHDMELQNLGAVVGRLEAELREIRAEAEQQQERAHLLARKCQLQKDVASYHALLDREESG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003571

ORF Size: 1245 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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: 1644 bp

RefSeq ORF: 1248 bp

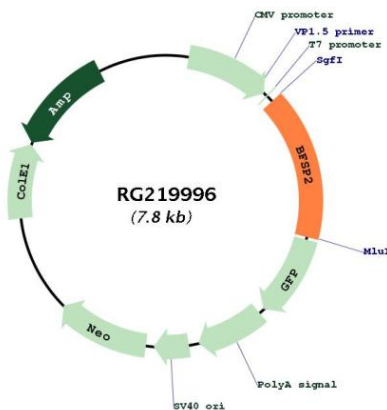
Locus ID: 8419

UniProt ID: [Q13515](#)

Cytogenetics: 3q22.1

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 RG219996