

Product datasheet for **RG213412**

Filensin (BFSP1) (NM_001195) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Filensin (BFSP1) (NM_001195) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BFSP1
Synonyms:	CP94; CP115; CTRCT33; LIFL-H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213412 representing NM_001195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACCGCCGACGTACGTCTTCCAGACCCGCAAGGAGCAGTACGAGCACGCCGACGAGGCTTCGCGCG
 CCGCCGAGCCGAGCGCCCGGCCGACGAGGGCTGGGCTGGGGCAACGAGCCTGGCGGCGCTGCAGGGGCT
 CGGCGAGCGCGTGGCCGCCACGTCCAGCGGGCCGCGCCCTCGAGCAGCGCCATGCCGGCTCCGAGG
 CAGCTGGATGCCTTCCAGCGCCTGGCGAGCTGGCCGGGCCGAGGACGCCCTCGCCGCCAAGTCGAGA
 GCAACCGCCAGCGCTCCGGACCTGGAGGCCGAGCGCGCCCGCTGGAGCGCCAGGGCACCGAGGGCGCA
 GCGCGCGCTCGACGAGTCCGAAGCAAGTATGAAAATGAGTGCGAATGTCAACTCTGCTAAAAGAAATG
 CTTGAACGGCTTAAACAAGGAAGCTGATGAAGCCTTGCTGCATAACCTACGCCTTCAGCTGGAAGCCCAAT
 TTCTGCAAGATGATATCAGTGGCGCAAAGGACAGGCACAAGAAGAATCTTCTGGAAGTTCAGACCTATAT
 CAGCATCTGCAGCAGATCATCCACACCACTCCTCCAGCATCCATTGTGACGAGTGGGATGAGGGAGGAG
 AAGCTCCTGACGGAGCGGAGGTGGCCGCCCTGCGGAGTCACTGGAGGAGGGCCGGGAGGTGCTCTCC
 ACCTGCAGGGCGCAGAGAGTGGAGCTGCAGGCACAGACAACAACCTCTGGAACAAGCTATTAAGGAGTCCCA
 TGAGTGTATGACGATGAGATTCAGCTTTATAACGAGCAGATTGAGACTGCGCAAGGAGATTGAGGAG
 ACAGAGCGGGTCTGGAGAAGTCTTCTTACGACTGCCGGCAGCTGGCGGTGCGCCAGCAAACCTGAAGA
 ATGAGCTGGACCGGTATCATCGTATCATCGAGATTGAAGGCAACAGGCTGACCTCTGCCTTATTGAAAC
 TCCCATTTCCCTGTTCAACCAGAGCCATGGAGTCTCTCAGCACTGGATCCGGTGGGAAAGATCTTACC
 AGAGCTCTGCAGGATATAACAGCAGCAAAACCAAGACAAAAGCCCTCCCAAGAATGTTCCAAGGAGAA
 AAGAGATTATAACAAAAGACAAAACCAACGGAGCTCTGGAAGATGCACCATTAAGGTTTGGAAAGACAC
 AAAGCTGGTACAGGTGGTACTTAAAGAGGAAAGTGAATCTAAGTTTGAATCAGAAAGTAAAGAAAGTAAAGT
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 CTGAGTCAACCAAGCCCTTTAGAGAATGGGCAGGTGGGTCTGCAGGAGAAAGAAGATGGACAACCAAT
 TGACCAGCAGCCTATAGACAAGGAGATTGAGCCAGATGGTGCAGAGCTGGAAGGCCCTGAAGAGAAACGT
 GAGGGTGAGGAGCGGGACGAAGAGTCCAGGAGACCCTGTGCCATGGTACACCCGGTGCAGAGGAACCAT
 CTATACCTGAGCCTCAAAGCCTGCGGCTGATCAGGATGGAGCTGAGGTGCTTGGGACTAGGAGCAGAAG
 CCTGCCAGAAAAGGCCCTCCCAAGGCTTTGGCCTATAAGACAGTGGAAAGTGGTGAATCTATCGAGAAG
 ATTTCCACGGAGAGCATTAGACATATGAAGAAACCGCTGTGATCGTGGAGACCATGATTGGAAAGACAA
 AGTCAGACAAGAAGAAATCAGGAGAGAAGAGCTCT

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG213412 representing NM_001195
 Red=Cloning site Green=Tags(s)

MYRRSYVFQTRKEQYEHAD EASRAAE PERPADEGWAGATSLAALQGLGERVA AHVQRARALEQRHAGLRR
 QLDAFQRLGELAGPEDALARQVESNRQVRDLEAERARLERQGTEAQRALDEFRSKYENECQCQLLLKEM
 LERLNKEADEALLHNLRLQLEAQFLQDDISA AKDRHKKNLLEVQTYISILQQIIHTTPASIVTSGMREE
 KLLTEREVAALRSQLEEGREVL SHLQAQRVELQAQTTTLEQA IKS AH ECYDDEIQLYNEQIETLRKEIEE
 TERVLEKSSYDCRQLAVAQQTLKNELDRYHRIEIEGNRLTSAFIETPIPLFTQSHGVSLSTGSGGKDLT
 RALQDITAAKPRQKALPKNVPRRKEIITKDKTNGALEDAPLKGLEDTKLQVVLKEESESKFESESEKVS
 PLTQEGAPEDVDPDGGQISKGFGLYRKYKVEKVRSPKEPETTEL YTKERHVLVTGDANYVDPFRFYVSSIT
 AKGGVAVSVAEDSVLYDQVVEPSPKPLENGQVGLQEKEDGQPIDQQPIDKEIEPDGAELEGPEEKR
 EGEERDEESRRPCAMVTPGAEEPSIPEPPKPAADQDGAEVLGTRSRSRLPEKPPKALAYKTVEVVESIEK
 ISTESIQTYEETAVIVETMIGTKSDKKKSGEKSS

TRTRPLE - GFP Tag - V

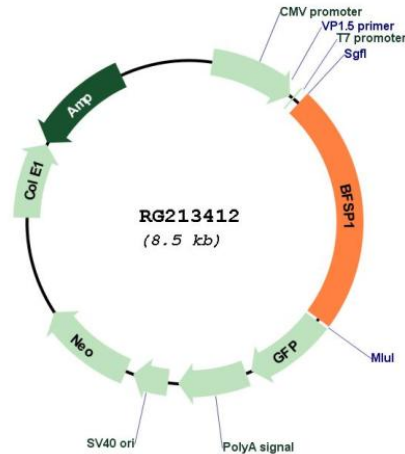
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001195

ORF Size: 1995 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_001195.2](#), [NP_001186.1](#)

RefSeq Size: 2176 bp

RefSeq ORF: 1998 bp

Locus ID: 631

UniProt ID: [Q12934](#)

Cytogenetics: 20p12.1

Domains: filament

Gene Summary: This gene encodes a lens-specific intermediate filament-like protein named filensin. The encoded protein is expressed in lens fiber cells after differentiation has begun. This protein functions as a component of the beaded filament which is a cytoskeletal structure found in lens fiber cells. Mutations in this gene are the cause of autosomal recessive cortical juvenile-onset cataract. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]