

Product datasheet for **RG228950**

Filensin (BFSP1) (NM_001161705) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Filensin (BFSP1) (NM_001161705) 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:

>RG228950 representing NM_001161705
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTATGAAAATGAGTGCGAATGTCAACTCCTGCTAAAAGAAATGCTTGAACGGCTTAACAAGGAAGCTG
 ATGAAGCCTTGCTGCATAACCTACGCCTTCAGCTGGAAGCCCAATTTCTGCAAGATGATATCAGTGC
 AAAGGACAGGCACAAGAAGAATCTTCTGGAAGTTCAGACCTATATCAGCATCCTGCAGCAGATCATCCAC
 ACCACTCCTCCAGCATCCATTGTGACGAGTGGGATGAGGGAGGAGAAGCTCCTGACGGAGCGGGAGGTGG
 CCGCCCTCGGAGTCACTGGAGGAGGGCCGGGAGGTGCTCTCCACCTGCAGGCGCAGAGAGTGGAGCT
 GCAGGCACAGACAACAACCTCTGGAACAAGCTATTAAGTGGCCATGAGTGTTATGACGATGAGATTCAG
 CTTTATAACGAGCAGATTGAGACTGCGCAAGGAGATTGAGGAGACAGAGCGGGTCTGGAGAAGTCTT
 CTTACGACTGCCGCGAGTGGCGGTGCGCCAGCAAACCCTGAAGAATGAGCTGGACCGGTATCATCGTAT
 CATCGAGATTGAAGGCAACAGGCTGACCTCTGCCTTCATTGAACTCCCATTCCCCTGTTACCCAGAGC
 CATGGAGTCTCTCAGCACTGGATCCGGTGGGAAAGATCTTACCAGAGCTCTGCAGGATATAACAGCAG
 CAAAACCAAGACAAAAGCCCTCCCAAGAATGTTCCAAGGAGAAAAGAGATTATAACAAAAGACAAAAC
 CAACGGAGCTCTGGAAGATGCACCATTAAGGTTTGAAGACACAAAGCTGGTACAGGTGGTACTTAAAG
 GAGGAAAGTGAATCTAAGTTTGAATCAGAAAGTAAAGAAGTAAGTCCCCTGACACAAGAAGGGGCTCCAG
 AGGATGTGCCAGATGGAGGGCAGATAAGCAAAGGCTTTGGGAAACTATACAGGAAGGTCAAGGAGAAAGT
 GAGAAGCCCCAAAGAGCCTGAGACCCCCACTGAGCTCTACACAAAGAGCGGCACGTGCTGGTACAGGG
 GATGCCAATTACGTGGACCCTAGATTCTATGCTCCTCCATCACAGCTAAAGTGGGTGGCTGTTTCTG
 TTGCGGAAGACTCTGTCTTTATGACGGCCAGTGGAGCCCTCTCCTGAGTCACCCAAGCCCCCTTTAGA
 GAATGGGCAGGTGGTCTGCAGGAGAAAAGATGGACAACCAATTGACCAGCAGCTATAGACAAGGAG
 ATTGAGCCAGATGGTGCAGAGCTGGAAGCCCTGAAGAGAAACGTGAGGGTGAGGAGCGGGACGAAGAGT
 CCAGGAGACCCTGTGCCATGGTACACCCGGTGCAGAGGAACCGTCTATACCTGAGCCTCCAAGCCTGC
 GGCTGATCAGGATGGAGCTGAGGTGCTTGGGACTAGGAGCAGAAGCCTGCCAGAAAAGGCCCTCCAAG
 GCTTTGGCCTATAAGACAGTGAAGTGGTGAATCTATCGAGAAGATTTCCACGGAGAGCATTACAGACAT
 ATGAAGAAACCGCTGTGATCGTGGAGACCATGATTGGAAGACAAAGTCAGACAAGAAGAATCAGGAGA
 GAAGAGCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228950 representing NM_001161705
 Red=Cloning site Green=Tags(s)

MYENECECQLLLKEMLERLNKEADEALLHNLRLQLEAQFLQDDISAAKDRHKNNLLEVQTYISILQQIIH
 TTPPASIVTSGMREEKLLTEREVAALRSQLEEGREVLSHLQAQRVELQAQTTTLEQAIKSAHECYDDEIQ
 LYNEQIETLRKEIEETERVLEKSSYDCRQLAVAQQLKNELDRYHRIIEIEGNRLTSAFIETPIPLFTQS
 HGVSLSSTGSGGKDLTRALQDITAAKPRQKALPKNVPRRKEIITKDKTNGALEDAPLKGLEDTKLVQVVLK
 EESESKFESESKVESPLTQEGAPEDVPDGGQISKGFGLYRKYKEKVRSPKEPETPELYTKERHVLVTG
 DANYVDPRFYVSSITAKGGVAVSVAEDSVLYDQVPEPSPKPLLENGQVGLQEKEDGQPIDQPIDKE
 IEPDGAIEGPEEKREGEERDEESRRPCAMVTPGAEPSIPEPPKPAADQDGAEVLGTRSRSLPEKGPPK
 ALAYKTVEVVESIEKISTESIQTYEETAVIVETMIGTKSDKKKSGEKSS

TRTRPLE - GFP Tag - V

Restriction Sites:

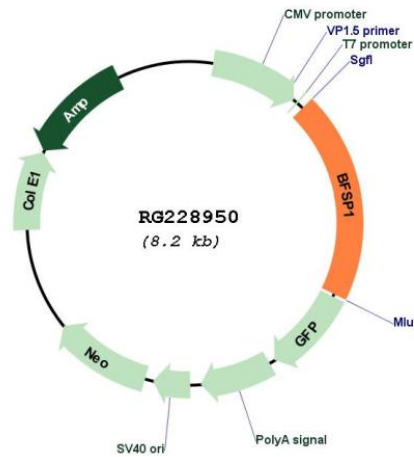
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001161705
ORF Size:	1620 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:	<ol style="list-style-type: none">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_001161705.1 , NP_001155177.1
RefSeq Size:	2077 bp
RefSeq ORF:	1623 bp
Locus ID:	631
UniProt ID:	Q12934
Cytogenetics:	20p12.1
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]