

## Product datasheet for **RC238721**

### **Filensin (BFSP1) (NM\_001278606) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Filensin (BFSP1) (NM_001278606) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BFSP1
Synonyms:	CP94; CP115; CTRCT33; LIFL-H
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238721 representing NM\_001278606  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTTGAACGGCTTAACAAGGAAGCTGATGAAGCCTTGCTGCATAACCTACGCCTTCAGCTGGAAGCCC  
 AATTTCTGCAAGATGATATCAGTGCGGCAAGGACAGGCACAAGAAGAATCTTCTGGAAGTTCAGACCTA  
 TATCAGCATCCTGCAGCAGATCATCCACACCCTCCTCCAGCATCCATTGTGACGAGTGGGATGAGGGAG  
 GAGAAGCTCCTGACGGAGCGGGAGGTGGCCGCCCTGCGGAGTCACTGGAGGAGGGCCGGGAGGTCTCT  
 CCCACCTGCAGGCGCAGAGAGTGGAGCTGCAGGCACAGACAACAACCTCTGGAACAAGCTATTAAGTGC  
 CCATGAGTGTATGACGATGAGATTGAGCTTTATAACGAGCAGATTGAGACACTGCGCAAGGAGATTGAG  
 GAGACAGAGCGGGTCTGGAGAAGTCTTCTACGACTGCCGCGAGCTGGCGGTGCGCCAGCAAACCTGA  
 AGAATGAGCTGGACCGGTATCATCGATCATCGAGATTGAAGGCAACAGGCTGACCTCTGCCTTCATTGA  
 AACTCCCATTCCCCTGTTACCCAGAGCCATGGAGTCTCTCAGCACTGGATCCGGTGGGAAAGATCTT  
 ACCAGAGCTCTGCAGGATATAACAGCAGCAAAACCAAGACAAAAGCCCTCCCAAGAATGTTCCAAGGA  
 GAAAAGAGATTATAACAAAAGACAAAACCAACGGAGCTCTGGAAGATGCACCATTAAGGTTTGGAAAG  
 CACAAAGCTGGTACAGGTGGTACTTAAAGAGGAAAGTGAATCTAAGTTTGAATCAGAAAAGTAAAGAGTA  
 AGTCCCCTGACACAAGAAGGGGCTCCAGAGGATGTGCCAGATGGAGGGCAGATAAGCAAAGGCTTTGGGA  
 AACTATACAGGAAGGTCAAGGAGAAAGTGAAGAAGCCCAAGAGCCTGAGACCCCACTGAGCTCTACAC  
 CAAAGAGCGGCACGTGCTGGTACAGGGGATGCCAATTACGTGGACCCTAGATTCTATGTCTCCTCCATC  
 ACAGCTAAAGGTGGGTGGTCTTTCTGTTGCGGAAGACTCTGTGCTTTATGACGGCCAGGTGGAGCCCT  
 CTCTGAGTCAACCAAGCCCTTTAGAGAATGGCAGGTGGTCTGCAGGAGAAAAGATGGACCAAC  
 AATTGACCAGCAGCCTATAGACAAGGAGATTGAGCCAGATGGTGCAGAGCTGGAAGGCCCTGAAGAGAAA  
 CGTGAGGGTGAAGAGCGGGACGAAGAGTCCAGGAGACCCTGTGCCATGGTACACCCGGTGCAGAGGAAC  
 CATCTATACCTGAGCCTCCAAAGCCTGCGGCTGATCAGGATGGAGCTGAGGTGCTTGGGACTAGGAGCAG  
 AAGCCTGCCAGAAAAGGCCCTCCCAAGCTTTGGCCTATAAGACAGTGGAAAGTGGTGAATCTATCGAG  
 AAGATTTCCAGGAGAGCATTGAGACATATGAAGAAACCCTGTGATCGTGGAGACCATGATTGGAAGA  
 CAAAGTCAGACAAGAAGAAATCAGGAGAGAAGAGCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238721 representing NM\_001278606  
 Red=Cloning site Green=Tags(s)

MLERLNKEADEALLHNLRLQLEAQFLQDDISAAKDRHKKNLLEVQTYISILQQIIHTTPPASIVTSGMRE  
 EKLLTEREVAALRSQLEEGREVLSHLQAQRVELQAQTTTLEQAIKSAHECYDDEIQLYNEQIETLRKEIE  
 ETERVLEKSSYDCRQLAVAQQLKNELDRYHRIEIEGNRLTSAFIETPIPLFTQSHGVSLSSTGSGGKDL  
 TRALQDITAAPRQKALPKNVPRRKEIITKDKTNGALEDAPLKGLEDTKLVQVVLKEESEKFESEKVEV  
 SPLTQEGAPEDVPDGGQISKGFGLYRKVKEKVRSPKEPETPELYTKERHVLVTGDANYVDPRFYVSSI  
 TAKGGVAVSVAEDSVLYDQVPEPSPKPPLENGQVGLQEKEDGQPIDQPIDKEIEPDGAELEGPEEK  
 REGEERDEESRRPCAMVTPGAEEPSIPEPPKPAADQDGAEVLGTRSRSLPEKGGPKALAYKTVEVVESIE  
 KISTESIQTYYEETAVIVETMIGTKSDKKKSSEKSS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

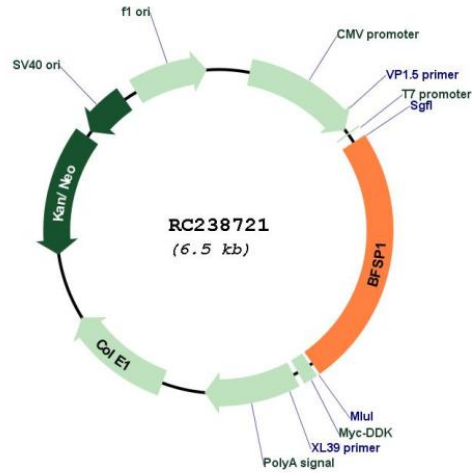
**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



## Plasmid Map:



<b>ACCN:</b>	NM_001278606
<b>ORF Size:</b>	1578 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001278606.2</a>
<b>RefSeq Size:</b>	2212 bp
<b>RefSeq ORF:</b>	1581 bp
<b>Locus ID:</b>	631
<b>UniProt ID:</b>	<a href="#">Q12934</a>
<b>Cytogenetics:</b>	20p12.1
<b>MW:</b>	59 kDa
<b>Gene Summary:</b>	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]