

Product datasheet for **RC238722**

Filensin (BFSP1) (NM_001278608) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Filensin (BFSP1) (NM_001278608) 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:

>RC238722 representing NM_001278608
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTTGAACGGCTTAACAAGGAAGCTGATGAAGCCTTGCTGCATAACCTACGCCTTCAGCTGGAAGCCC
 AATTTCTGCAAGATGATATCAGTGCGGCAAGGACAGGCACAAGAAGAATCTTCTGGAAGTTCAGACCTA
 TATCAGCATCCTGCAGCAGATCATCCACACCCTCCTCCAGCATCCATTGTGACGAGTGGGATGAGGGAG
 GAGAAGCTCCTGACGGAGCGGGAGGTGGCCGCCCTGCGGAGTCACTGGAGGAGGGCCGGGAGGTCTCT
 CCCACCTGCAGGCGCAGAGAGTGGAGCTGCAGGCACAGACAACAACCTCTGGAACAAGCTATTAAGTGC
 CCATGAGTGTATGACGATGAGATTGAGCTTTATAACGAGCAGATTGAGACACTGCGCAAGGAGATTGAG
 GAGACAGAGCGGGTCTGGAGAAGTCTTCTTACGACTGCCGCGAGCTGGCGGTGCGCCAGCAAACCTGA
 AGAATGAGCTGGACCGGTATCATCGTATCATCGAGATTGAAGGCAACAGGCTGACCTCTGCCTTCATTGA
 AACTCCCATTCCCCTGTTACCCAGAGCCATGGAGTCTCTCAGCACTGGATCCGGTGGGAAAGATCTT
 ACCAGAGCTCTGCAGGATATAACAGCAGCAAAACCAAGACAAAAGCCCTCCCAAGAATGTTCCAAGGA
 GAAAAGAGATTATAACAAAAGACAAAACCAACGGAGCTCTGGAAGATGCACCATTAAGGTTTGGGAAGA
 CACAAAGCTGGTACAGGTGGTACTTAAAGAGGAAAGTGAATCTAAGTTTGAATCAGAAAAGTAAAGAAGTA
 AGTCCCCTGACACAAGAAGGGGCTCCAGAGGATGTGCCAGATGGAGGGCAGATAAGCAAAGGCTTTGGGA
 AACTATACAGGAAGGTCAAGGAGAAAGTGAAGAAGCCCAAGAGCCTGAGACCCCACTGAGCTCTACAC
 CAAAGAGCGGCACGTGCTGGTACAGGGGATGCCAATTACGTGGACCCTAGATTCTATGTCTCCTCCATC
 ACAGCTAAAGGTGGGGTGGCTGTTCTGTTGCGGAAGACTCTGTGCTTTATGACGGCCAGGTGGAGCCCT
 CTCTGAGTCAACCAAGCCCTTTAGAGAATGGCAGGTGGGTCTGCAGGAGAAAAGATGGACAAC
 AATTGACCAGCAGCCTATAGACAAGGAGATTGAGCCAGATGGTGCAGAGCTGGAAGGCCCTGAAGAGAAA
 CGTGAGGGTGAAGAGCGGGACGAAGAGTCCAGGAGACCCTGTGCCATGGTACACCCGGTGCAGAGGAAC
 CATCTATACCTGAGCCTCCAAAGCCTGCGGCTGATCAGGATGGAGCTGAGGTGCTTGGGACTAGGAGCAG
 AAGCCTGCCAGAAAAGGCCCTCCCAAGCTTTGGCCTATAAGACAGTGGAAAGTGGTGAATCTATCGAG
 AAGATTTCCAGGAGAGCATTGAGACATATGAAGAAACCCTGTGATCGTGGAGACCATGATTGGAAGA
 CAAAGTCAGACAAGAAGAAATCAGGAGAGAAGAGCTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238722 representing NM_001278608
 Red=Cloning site Green=Tags(s)

MLERLNKEADEALLHNLRLQLEAQFLQDDISAAKDRHKKNLLEVQTYISILQQIIHTTPPASIVTSGMRE
 EKLLTEREVAALRSQLEEGREVLSHLQAQRVELQAQTTTLEQAIKSAHECYDDEIQLYNEQIETLRKEIE
 ETERVLEKSSYDCRQLAVAQQLKNELDRYHRIEIEGNRLTSAFIETPIPLFTQSHGVSLSSTGSGGKDL
 TRALQDITAAPRQKALPKNVPRRKEIITKDKTNGALEDAPLKGLEDTKLVQVVLKEESEKFESEKVEV
 SPLTQEGAPEDVPDGGQISKGFGLYRKVKEKVRSPKEPETPELYTKERHVLVTGDANYVDPRFYVSSI
 TAKGGVAVSVAEDSVLYDQVPEPSPKPPLENGQVGLQEKEDGQPIDQPIDKEIEPDGAELEGPEEK
 REGEERDEESRRPCAMVTPGAEEPSIPEPPKPAADQDGAEVLGTRSRSLPEKPPKALAYKTVEVVESIE
 KISTESIQTYEETAVIVETMIGKTKSDKKKSGEKSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

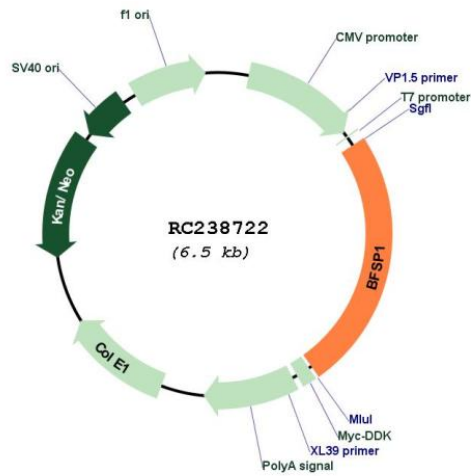
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001278608
ORF Size:	1578 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_001278608.1 , NP_001265537.1
RefSeq Size:	2198 bp
RefSeq ORF:	1581 bp
Locus ID:	631
UniProt ID:	Q12934
Cytogenetics:	20p12.1
MW:	59 kDa
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]