

Product datasheet for **RC238877**

Filensin (BFSP1) (NM_001278607) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Filensin (BFSP1) (NM_001278607) 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:

>RC238877 representing NM_001278607
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTTTCAAATTTACACAGAAGGAGCCTCCATGCTGGAGAAAGTATGAAAATGAGTGCGAATGTCAAC
 TCTGCTAAAAGAAATGCTTGAACGGCTTAACAAGGAAGCTGATGAAGCCTTGCTGCATAACCTACGCCT
 TCAGCTGGAAGCCCAATTTCTGCAAGATGATATCAGTGCAGGCAAAGGACAGGCACAGAAGAATCTTCTG
 GAAGTTCAGACCTATATCAGCATCTGCAGCAGATCATCCACACCACTCCTCCAGCATCCATTGTGACGA
 GTGGGATGAGGGAGGAGAAGCTCCTGACGGAGCGGGAGGTGGCCGCCCTGCGGAGTCAGCTGGAGGAGGG
 CCGGGAGGTGCTCTCCACCTGCAGGCGCAGAGAGTGGAGCTGCAGGCACAGACAACAACCTGGAACAA
 GCTATTAAGAGTCCCATGAGTGTATGACGATGAGATTCAGCTTTATAACGAGCAGATTGAGACTGCGC
 GCAAGGAGATTGAGGAGACAGAGCGGTCTGGAGAAGTCTTCTACGACTGCCGCGAGCTGGCGGTGCGC
 CCAGCAAACCTGAAGAATGAGCTGGACCGGTATCATCGTATCATCGAGATTGAAGGCAACAGGCTGACC
 TCTGCCTTCATTGAAACTCCATTCCCCTGTTACCCAGAGCCATGGAGTCTCTCAGCACTGGATCCG
 GTGGGAAAGATCTTACCAGAGCTCTGCAGGATATAACAGCAGCAAACCAAGACAAAAGCCCTCCCCAA
 GAATGTTCCAAGGAGAAAAGAGATTATAACAAAAGACAAAACCAACGGAGCTCTGGAAGATGCACCATTA
 AAAGTTTGAAGACACAAGCTGGTACAGGTGGTACTTAAAGAGGAAAGTGAATCTAAGTTTGAATCAG
 AAAGTAAAGAAGTAAAGTCCCCTGACACAAGAAGGGCTCCAGAGGATGTGCCAGATGGAGGGCAGATAAG
 CAAAGGCTTTGGGAACTATACAGGAAGGTCAAGGAGAAAGTGAAGAGCCCAAAGAGCCTGAGACCCCT
 ACTGAGCTCTACACCAAAGAGCGGCACGTGCTGGTACAGGGGATGCCAATTACGTGGACCCTAGATTCT
 ATGTCTCTCCATCACAGCTAAAGTGGGGTGGCTGTTTCTGTTGCGGAAGACTCTGTGCTTTATGACGG
 CCAGGTGGAGCCCTCTCCTGAGTACCCCAAGCCCTTTAGAGAATGGGCAGGTGGTCTGCAGGAGAAA
 GAAGATGGACAACCAATTGACCAGCAGCTATAGACAAGGAGATTGAGCCAGATGGTGCAGAGCTGGAAG
 GCCCTGAAGAGAAACGTGAGGTGAGGAGCGGGACGAAGAGTCCAGGAGACCCTGTGCCATGGTACACCC
 CGGTGCAGAGGAACCATCTATACCTGAGCCTCCAAAGCCTGCGGCTGATCAGGATGGAGCTGAGGTGCTT
 GGGACTAGGAGCAGAAGCCTGCCAGAAAAGGCCCTCCAAGGCTTTGGCTATAAGACAGTGAAGTGG
 TGGAACTATCGAGAAGATTTCCACGGAGAGCATTAGACATATGAAGAAACCGTGTGATCGTGGAGAC
 CATGATTGAAAGACAAAGTCAGACAAGAAGAAATCAGGAGAGAAGAGCTCT

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RC238877 representing NM_001278607
 Red=Cloning site Green=Tags(s)

MDFQISQKEPPCWRKYENECQLLLLKEMLERLNKEADEALLHNLRLQLEAQFLQDDISAAKDRHKNNLL
 EVQTYISILQQIIHTTPPASIVTSGMREEKLLTEREVAALRSQLEEGREVLSHLQAQRVELQAQTTTLEQ
 AIKSAHECYDDEIQLYNEQIETLRKEIEETERVLEKSSYDCRQLAVAQQTLKNELDRYHRIEIEGNRLT
 SAFIETPIPLFTQSHGVSSTGSGGKDLTRALQDITAAPRQKALPKNVPRRKEIITKDKTNGALEDAPL
 KGLEDTKLVQVVLKEESESKFESESKEVSPLTQEGAPEDVPDGGQISKGFGLYRKVKEKVRSPKEPETP
 TELYTKERHVLVTGDANYVDPFRYVSSITAKGGVAVSVAEDSVLYDQVEPSPESPKPLENGQVGLQEK
 EDGQPIDQPIDKEIEPDGAELEGPEEKREGEERDEESRRPCAMVTPGAEEPSIPEPPKPAADQDGAEVL
 GTRSRSLPEKPPKALAYKTVEVVESIEKISTESIQTYEETAVIVETMIGKTKSDKKKSSEKSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

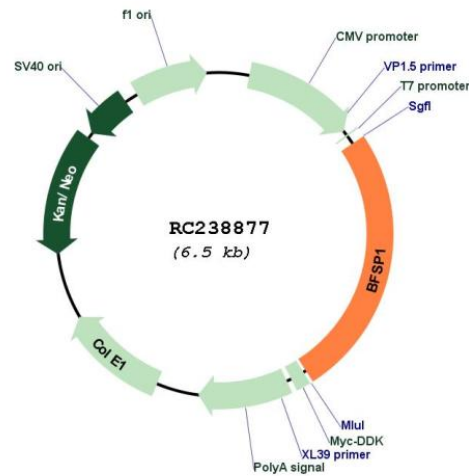
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN:	NM_001278607
ORF Size:	1662 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_001278607.2
RefSeq Size:	2073 bp
RefSeq ORF:	1665 bp
Locus ID:	631
UniProt ID:	Q12934
Cytogenetics:	20p12.1
MW:	62.5 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]