

Product datasheet for **RG238877**

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:	TurboGFP
Symbol:	Filensin
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:

>RG238877 representing NM_001278607.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGATTTTCAAATTTACAGAAGGAGCCTCCATGCTGGAGAAAGTATGAAAATGAGTGCGAATGTCAA
CTCCTGTAAAAGAAATGCTTGAACGGCTTAACAAGGAAGCTGATGAAGCCTTGCTGCATAACCTACGC
CTTCAGCTGGAAGCCCAATTTCTGCAAGATGATATCAGTGCGGCAAAGGACAGGCCACAAGAAGAATCTT
CTGGAAGTTCAGACCTATATCAGCATCCTGCAGCAGATCATCCACACCACTCCTCCAGCATCCATTGTG
ACGAGTGGGATGAGGGAGGAGAAGCTCCTGACGGAGCGGGAGGTGGCCGCCCTGCGGAGTCACTGGAG
GAGGGCCGGGAGGTGCTCTCCACCTGCAGGCGCAGAGAGTGGAGCTGCAGGCACAGACAACAACCTG
GAACAAGCTATTAAGTGCCATGAGTGTATGACGATGAGATTCAGCTTTATAACGAGCAGATTGAG
ACACTGCGCAAGGAGATTGAGGAGACAGAGCGGGTCTGGAGAAGTCTTCTTACGACTGCCGGCAGCTG
GCGGTGCGCCAGCAAACCTGAAGAATGAGCTGGACCGGTATCATCGTATCATCGAGATTGAAGGCAAC
AGGCTGACCTCTGCCTTATTGAACTCCCATTCCCCTGTTACCCAGAGCCATGGAGTCTCTCAGC
ACTGGATCCGGTGGGAAAGATCTTACCAGAGCTCTGCAGGATATAACAGCAGCAAAACCAAGACAAAA
GCCCTCCCAAGAATGTTCCAAGGAGAAAAGAGATTATAACAAAAGACAAAACCAACGGAGCTCTGGAA
GATGCACCATTAAGGTTTGAAGACAAAAGCTGGTACAGGTGGTACTTAAAGAGGAAAGTGAATCT
AAGTTTGAATCAGAAAGTAAAGAAGTAAGTCCCCTGACACAAGAAGGGGCTCCAGAGGATGTGCCAGAT
GGAGGGCAGATAAGCAAAGGCTTTGGGAAACTATACAGGAAGGTCAAGGAGAAAGTGAGAAGCCCCAAA
GAGCCTGAGACCCCACTGAGCTCTACACCAAAGAGCGGCACGTGCTGGTACAGGGGATGCCAATTAC
GTGGACCTAGATTCTATGTCTCCTCCATCACAGCTAAAGTGGGGTGGCTGTTTCTGTTGCGGAAGAC
TCTGTGCTTTATGACGGCCAGGTGGAGCCCTCCTGAGTACCCCAAGCCCCCTTAGAGAATGGGCAG
GTGGGTCTGCAGGAGAAAGAAGATGGACAACCAATTGACCAGCAGCCTATAGACAAGGAGATTGAGCCA
GATGGTGCAGAGCTGGAAGGCCCTGAAGAGAACTGAGGGTGGAGGAGCGGGACGAAGAGTCCAGGAGA
CCCTGTGCCATGGTACACCCGGTGCAGAGGAACCATCTATACCTGAGCCTCAAAGCCTGCGGCTGAT
CAGGATGGAGCTGAGGTGCTTGGGACTAGGAGCAGAAGCCTGCCAGAAAAGGCCCTCCAAGGCTTTG
GCCTATAAGACAGTGAAGTGGTGAATCTATCGAGAAGATTTCCAGGAGAGCATTAGACATATGAA
GAAACCGTGTGATCGTGGAGACCATGATTGAAAAGACAAAGTCAGACAAGAAGAATCAGGAGAGAAG
AGCTCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

Protein Sequence:

>Peptide sequence encoded by RG238877
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MDFQISQKEPPCWRKYENECECQLLLKEMLERLNKEADEALLHNLRLQLEAQFLQDDISAAKDRHKKNL
LEVQTYISILQQIIHTTTPPASIVTSGMREEKLLTEREVAALRSQLEEGREVLSHLQAQRVELQAQTTL
EQAIKSAHECYDDEIQLYNEQIETLRKEIEETERVLEKSSYDCRQLAVAQQLKNELDRYHRIIEIEGN
RLTSAFIETPIPLFTQSHGVSLSGSGGKDLTRALQDITAAKPRQKALPKNVPRRKEIITKDKTNGALE
DAPLKGLEDTKLVQVVLKEESESKEFESEKESVPLTQEGAPEDVPDGGQISKGFGLYRKYKEKVRSPK
EPETPTELYTKERHVLVTDANYVDPRFYVSSITAKGGVAVSVAEDSVLYDQVPESPSPKPLENGQ
VGLQEKEQGPIDQQPIDKEIEPDGAELEGPEEKREGEERDEESRRPCAMVTPGAEEPSIPEPPKPAAD
QDGAEVLGTRSRSLPEKGPPKALAYKTVEVVESIEKISTESIQTYEETAVIVETMIGKTKSDKKKSGEK
SS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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).

RefSeq: [NM_001278607.2](#)

RefSeq Size: 2073 bp

RefSeq ORF: 1665 bp

Locus ID: 631

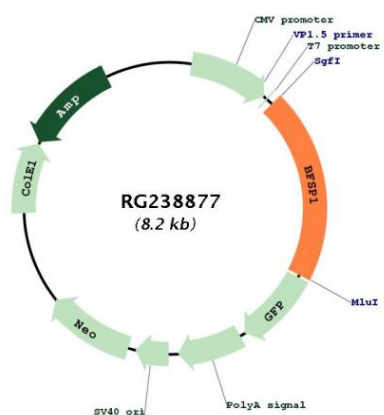
UniProt ID: [Q12934](#)

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]

Product images:



Circular map for RG238877