

Product datasheet for **RG238721**

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:	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:

>RG238721 representing NM_001278606.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTTGAACGGCTTAACAAGGAAGCTGATGAAGCCTTGCTGCATAACCTACGCCTTCAGCTGGAAGCC
CAATTTCTGCAAGATGATATCAGTGCAGCAAGGACAGGCACAAGAAGAATCTTCTGGAAGTTCAGACC
TATATCAGCATCCTGCAGCAGATCATCCACCACTCCTCCAGCATCCATTGTGACGAGTGGGATGAGG
GAGGAGAAGCTCCTGACGGAGCGGGAGGTGGCCGCCCTGCGGAGTCAGCTGGAGGAGGGCCGGGAGGTG
CTCTCCCACCTGCAGGCGCAGAGAGTGGAGCTGCAGGCACAGACAACAACCTCTGGAACAAGCTATTTAAA
AGTGCCCATGAGTGTTATGACGATGAGATTAGCTTTATAACGAGCAGATTGAGACACTGCGCAAGGAG
ATTGAGGAGACAGAGCGGGTCTGGAGAAGTCTTCTTACGACTGCCGGCAGCTGGCGGTGCGCCAGCAA
ACCCTGAAGAATGAGCTGGACCGGTATCATCGTATCATCGAGATTGAAGGCAACAGGCTGACCTCTGCC
TTCATTGAAACTCCCATTCCCCTGTTACCCAGAGCCATGGAGTCTCTCTCAGCACTGGATCCGGTGGG
AAAGATCTTACCAGAGCTCTGCAGGATATAACAGCAGCAAAACCAAGACAAAAGCCCTCCCAAGAAAT
GTTCCAAGGAGAAAAGAGATTATAACAAAAGACAAAACCAACGGAGCTCTGGAAGATGCACCATTAAAA
GGTTTGGAAAGACAAAAGCTGGTACAGGTGGTACTTAAAGAGGAAAGTGAATCTAAGTTTGAATCAGAA
AGTAAAGAAGTAAGTCCCTGACACAAGAAGGGCTCCAGAGGATGTGCCAGATGGAGGGCAGATAAGC
AAAGGCTTTGGGAAACTATACAGGAAGGTCAAGGAGAAAGTGAGAAGCCCCAAAGAGCCTGAGACCCCC
ACTGAGCTCTACACCAAAGAGCGGCACGTGCTGGTACAGGGGATGCCAATTACGTGGACCTAGATTC
TATGTCTCCTCCATCACAGCTAAAGGTGGGGTGGCTGTTTCTGTTGCGGAAGACTCTGTGCTTTATGAC
GGCCAGGTGGAGCCCTCTCCTGAGTACCCAAGCCCCCTTAGAGAATGGGCAGTGGGTGCAGGAG
AAAGAAGATGGACAACCAATTGACCAGCAGCCTATAGACAAGGAGATTGAGCCAGATGGTGCAGAGCTG
GAAGGCCCTGAAGAGAAACGTGAGGGTGAGGAGCGGGACGAAGAGTCCAGGAGACCCTGTGCCATGGTC
ACACCCGGTGCAGAGGAACCATCTATACCTGAGCCTCAAAGCCTGCGGCTGATCAGGATGGAGCTGAG
GTGCTTGGGACTAGGAGCAGAAGCCTGCCAGAAAAGGCCCTCCCAAGGCTTTGGCTATAAGACAGTG
GAAGTGGTGAATCTATCGAGAAGATTTCCACGGAGAGCATTAGACATATGAAGAAACCCTGTGATC
GTGGAGACCATGATTGAAAAGACAAAGTCAGACAAGAAGAATCAGGAGAGAAGAGCTCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

Protein Sequence:

>Peptide sequence encoded by RG238721
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MLERLNKEADEALLHNLRLQLEAQFLQDDISAAKDRHKKNLLEVQTYISILQQIIHTTTPPASIVTSGMR
EEKLLTEREVAALRSQLEEGREVLSHLQAQRVELQAQTTLEQAIKSAHECYDDEIQLYNEQIETLRKE
IEETERVLEKSSYDCRQLAVAQQLKNELDRYHRIEIEGNRLTSAFIETPIPLFTQSHGVSLSTGSGG
KDLTRALQDITAAKPRQKALPKNPPRRKEIITKDKTNGALEDAPLKGLEDTKLQVVLKEESESKFESE
SKEVSPLTQEGAPEDVDPGGQISKGFGLYRKVKEKVRSPKEPETPELTYKERHVLVTGDANYVDPRF
YVSSITAKGGVAVSVAEDSVLYDQVPEPSPKPPLENGQVGLQEKEDGQPIDQPIDKEIEPDGAEL
EGPEEKREGEERDEESRRPCAMVTPGAEEPSIPEPPKPAADQDGAEVLGTRSRSLPEKGGPKALAYKTV
EVVESIEKISTESIQTYYEETAVIVETMIGTKSDKKKSGEKSS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

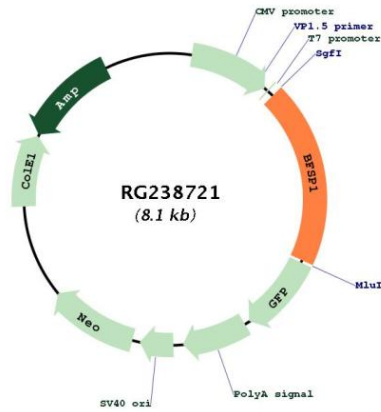
Restriction Sites:

SgfI-MluI

Cloning Scheme:


- ACCN:** NM_001278606
- 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).
- RefSeq:** [NM_001278606.2](#)
- RefSeq Size:** 2212 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]

Product images:



Circular map for RG238721