

Product datasheet for **MG209865**

Bfsp1 (BC057580) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bfsp1 (BC057580) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bfsp1
Synonyms:	CP95
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG209865 representing BC057580
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACCGCCGAGCTACGTCTTCCAGGCCGCCAGGAGCGCTACGAGCGCGCCAGCCCGGGCCCCG
 CCGCCAGCCCGGGGAACCGCGCCCGGCTGGCAGCGCTGCAGGCGCTGGGCGAGCGCTGGCAGTCCA
 GGTCCAGCGGGCCCGCGCTCCAGCAGCGCCAGCCGGCTGCGGCGGAGCTCGACGCCTTCCAGCGC
 CTGGGCGAGCAGCCCGGCCGAGGACGCGCTCGCCGCCACGTGAGGCCAATCTGCAGCGCGCCGGG
 ACCTGACAGCCGAGCAGCGCGGCTCGAGAGGCAGGAGCCGAGGCGCAGCGCGCTCGACGAGTCCG
 CAGCAAATACGAAATGAGTGTGAATGTCAGTTGGTGCTAAAGGAAATGCTGGAACGGCTTAAACAAGGAA
 GCCGATGAAGCCTTATTGCGTAACCTGCACCTCAGTTGGAGGCACAGTTTCTGCAGGCAGATATCAGTG
 TGGCCAAGGACAGGTACAAGAAGATCTTCTGGAGATTCAGACCTACATCACCGTCTGCAGCAGATCGT
 ACAGACTGCTCCTCAAGTGTCCCTGGTTACTGGGATGAGGGAGGAGAAGCTGTTACAGAACGGGAAGTG
 GCTGCCCTGCAGAACAGCTGGAGGAGGCCGAGAGGCAGTCACCCACCTGCAGGCACAGAAAGCTGAGC
 TGCAGGCCAGACCAGGCCCTGGAACAAGCTATTAAGCATGCTCATGAGTGTACGATGAGGAGCTACA
 GCTTTACAACGAGCAGATCGAAAACCTTCGGAAGGAGATCGAGGAGGCGGAGCGGTCTCTGGAGAGGTGCG
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 TCATTGAGATTGAAGGCAGCAGGCTGAGCTCTGTTTTTCATTGAGACGCCCATCTCTGTATCACCCCGAG
 CCATGGGGCCCTCTCAGCCTTGGATCCAGTGTGAAAGATCTTCCAGGGCCGTGCAGGATATTACAGCA
 GCTAAACCGAGACAGAAGGCCCTCCCAAGAGCCTTCCAAAAGAAAGGAGATTATAGCTCAAGATAAGG
 TGGAGGAAACTCTGGAAGATGCACCATTAACCTCCGAGGAGCCAAAGGCAGCTGCAGGTGGAACGGAA
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 CACAGGGGAGTCTAGTTTTGTTGACCCGAGTTTACTCCTCCTCCATCCAGCTAGAGGTGGGGTGGTG
 ATTTCCATTGAGGAAGACTCTATGCATCATGACGGCCACGTAGAGCCCTCTCTGGACAGCCATGCCAC
 CTGTGGAGAATGGACAGGGCGTTCCCGAGGCAGGAAGGTGACCACTCAAACCATCAGCAGGGTACAGA
 CAAGAATGGGTTACGGGCAAGGAACCAAAAGACCTGGAGGAAAAGATGATGATGGCAAGAAGGAAGCT
 GAGGGGAGCAGGAGACCCTGTCTGTGATCATACCTGGTCTGATGAACCATCTACATCCCATTACAGA
 CGTCTGGTCCAATCAGGGTGGACCAGTGGGGCTGCGAGTAAGAGCAGTAGCCTGCTGGCAAAGGGCCC
 TTCGAAGGCTCTGTCTATTAAGAAGGTGGAGGTGGTGAATCCATTGAGAAGATTCAACAGAGAGTATT
 CAGACATATGAAGAGACTTCCGTAATTGTGGAGACTCTGATTGGGAAGTCAAAGGGCAACAAGAACTGG
 GAGAGAAGAGCTTGCCAGACACAAGGGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG209865 representing BC057580
 Red=Cloning site Green=Tags(s)

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MYRRSYVFQARQERYERAQPAGPAAQPGGTAPGLAALQALGERVAVQVQRARALQQRHAGLRRQLDAFQR
LGEQPGPEDALARHVEANLQRARDLTAEHARLERQEAQAQRALDEFRSKYENECECQLVLKEMLERLNKE
ADEALLRNLHLQLEAQFLQADISVAKDRYKKNLLEIQTYITVLQQIVQTAPOVSLVTGMREEKLFTEREV
AALQNQLLEEGREAVTHLQAQKAELQAQTTALEQAQIKHAHECYDEELQLYNEQIENLRKEIEEAERSLERS
SYDCRQLAVAQQTLRNELDRYHRIEIEGSRLLSVEIETPISLITPSHGAPLSLGSSVKDLARAVQDITA
AKPRQKALPKSLPKRKEIIAQDKVEETLEDAPLKPPQEPKALQVERKAEGGSQPAGGGHVSPTQEGGP
EDVPDGGQISKAFGLCKVVKERVSGHKEPEPEPPTDLFTKGRHVLVTGESSFVDFEFYSSSIPARGGVV
ISIEEDSMHHDGHVPESPGQPMPPVENGGQVPGREGDHSNHQQGTDKNGLRAKEPKDLEEKDDDGKKEA
EGSRRPCPVIIPGPDEPSTSHSQTSGSNQGGPVGPAKSSSLLAKGPKALSIIKKEVVEVSEIEKISTESI
QTYEETSIVIVETLIGKSKGNKKLGEKSLPDTRA
  
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC057580

ORF Size: 1991 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:

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: [BC057580](#), [AAH57580](#)

RefSeq Size: 2414 bp

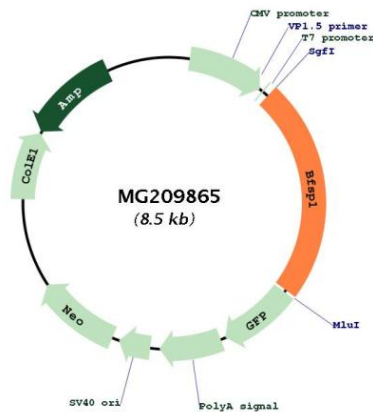
RefSeq ORF: 1991 bp

Locus ID: 12075

Cytogenetics: 2 G1

Gene Summary: Required for the correct formation of lens intermediate filaments as part of a complex composed of BFSP1, BFSP2 and CRYAA (By similarity). Involved in altering the calcium regulation of MIP water permeability (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209865