

## Product datasheet for **MC205158**

### **Bfsp1 (NM\_009751) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bfsp1 (NM_009751) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bfsp1
Synonyms:	CP95
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC057580  
 GATCCTCCGTGCAGTCACATAGCAACAGGCCTCCACAATGGCGGAACAAAGAGGTCTTGCCCGATGCC  
 CTTCCACCCGGGAGCTGTATGGGCGGCTTAATCCCGCACACAAAGCACCCGCGGCTTTCATTGTTGGG  
 GCCCGCCCGAGGGCACATCTGCTGACCGGCTCTGGAACGTCCCAGCCCGGCCGGCGGTTTATTTAGCA  
 GGCGCAGCCAGGCCGCGGCCTTCGGGAGCCATGTACCGCCGCAGCTACGTCTTCCAGGCCGCCAGGA  
 GCGCTACGAGCGCGCCAGCCCGGGCCCCGCCAGCCCGGGGAACCGCGCCCGCTGGCAGCG  
 CTGCAGGCGCTGGGCGAGCGCGTGGCAGTCCAGGTCCAGCGGGCCCGCGCGCTCCAGCAGGCCACGCCG  
 GCCTGCGGCGGCAGCTCGACGCCTTCCAGCGCCTGGGCGAGCAGCCCGGCCCGAGGACGCGCTCGCCCG  
 CCACGTCGAGGCCAATCTGCAGCGCGCCGGGACCTGACAGCCGAGCACGCGCGGCTCGAGAGGCAGGAG  
 GCCGAGGCGCAGCGCGCTCGACGAGTTCGCGAGCAAATACGAAAATGAGTGTGAATGTCAGTTGGTGC  
 TAAAGGAAATGCTGGAACGGCTTAAACAAGGAAGCCGATGAAGCCTTATTGCGTAACCTGCACCTCAGTT  
 GGAGGCACAGTTTCTGCAGGCAGATATCAGTGTGGCCAAGGACAGGTACAAGAAGAATCTTCTGGAGATT  
 CAGACCTACATCACCGTCTGCAGCAGATCGTACAGACTGCTCCTCAAGTGTCCCTGGTTACTGGGATGA  
 GGGAGGAGAAGCTGTTACAGAACGGGAAGTGGTGCCTGCAGAACAGCTGGAGGAGGCCGAGAGGC  
 AGTCACCCACCTGCAGGCACAGAAAGCTGAGCTGCAGGCCAGACCAGGCCCTGGAACAAGCTATTAAG  
 CATGCTCATGAGTGTTACGATGAGGAGCTACAGCTTTACAACGAGCAGATCGAAAACCTTCGGAAGGAGA  
 TCGAGGAGGCGGAGCGGTCTCTGGAGAGTCTGCTATGACTGCAGGCAGCTAGCCGTGGCCAGCAGAC  
 GCTGAGGAATGAGCTAGACCGTTATCATCGGATCATTGAGATTGAAGGCAGCAGGCTGAGCTCTGTTTT  
 ATTGAGACGCCATCTCTGATCACCCGAGCCATGGGGCCCTCTCAGCCTTGATCCAGTGTGAAAAG  
 ATCTTGCCAGGGCCGTGCAGGATATTACAGCAGCTAAACCGAGACAGAAGGCCCTCCCAAGAGCCTTCC  
 AAAAAGAAAGGAGATTATAGCTCAAGATAAGGTGGAGGAACTCTGGAAGATGCACCTAAAACCTCCG  
 CAGGAGCCAAAGCACTGCAGGTGGAACGAAAGCAGAAGGTGGTCTCAGCCCGGAGCAGGGGGAGGAC  
 ATGGAGTAAGTCCACACAAGAAGGGGTCTGAGGATGTGCCAGACGGGGCCAGATAAGCAAAGCCTT  
 TGGGAAACTGTGCAAAGTAGTGAAAGAGAGAGTGAAGCGCCACAAGAGCCCGAGCCTGAGCCGCCACG  
 GACCTTTTACCAAAGGACGGCATGTAAGTCTGTCAGGGGAGTCTAGTTTTGTTGACCCCGAGTTTACT  
 CCTCCTCCATCCCAGCTAGAGGTGGGTGGTATTTCATTGAGGAAGACTCTATGCATCATGACGGCCA  
 CGTAGAGCCCTCTCTGGACAGCCATGCCACCTGTGGAGAATGGACAGGGCGTTCGCCAGGGCAGGGAA  
 GGTGACCACTCAAACCATCAGCAGGTCACAGACAAGAATGGGTTACGGGCAAGGAACCAAAAGACTGG  
 AGGAAAAAGATGATGATGGCAAGAAGGAAGCTGAGGGGAGCAGGAGACCTGTCTGTGATCATACCTGG  
 TCCTGATGAACCATCTACATCCATTACAGACGTCTGGTCCAATCAGGGTGGACCACTGGGGCCTGCG  
 AGTAAGAGCAGTAGCCTGCTGGCAAAGGCCCTTCAAGGCTCTGTCTATTAAGAAGGTGGAGGTGGTGG  
 AATCCATTGAGAAGATTTCAACAGAGAGTATTCAGACATATGAAGAGACTTCCGTAAATTGTGGAGACTCT  
 GATTGGGAAGTCAAAGGGCAACAAGAACTGGGAGAGAAGAGCTTGCCAGACACAAGGGCTTGAAGGAGG  
 AAAGTGTCCGGGCAAGTGTGGGAGGAGGGCTTTGAGATGGGCTCCTGTTTGGATTAGATCATAGTCAACCT  
 GTCTGCATTGCAGGTGACCTCCAATGACCTTCAATAAAGTCTTTCTTTTGTCTGACCAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI

**ACCN:** NM\_009751

**Insert Size:** 1992 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** 1992 bp

**Locus ID:** 12075

**UniProt ID:** [A2AMT1](#)

**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]  
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1, resulting in an isoform (b) that is shorter than isoform a.