

Product datasheet for **RR216614**

Bfsp2 (NM_001277434) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bfsp2 (NM_001277434) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bfsp2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR216614 representing NM_001277434
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGAGAGGAGAGTAGCAATGGACTTGCCCTCAGGATCCAACGCCAGCATGCCCTGCAAAGGCACA
GGGTGTCATCCCTTAGGGGAACACGATCTCCTTCCCTGGATAGCCCCCAGCATCCAGGACCAGTGC
TGTAGGTAGCCTCGTCCGTGCCCTGGGTCTATGTAGGAGTAGCACCCAGTGGTGGCATAGGTGGCCTC
GGTGCCCGAGTGACCCGCGGGCCCTGGGCATCAGCAGTGTCTTCTGCAGGGCCTGCGGAGCTCAGGCC
TTGCCACTGCACCTGCTCCAGGCCAGAAAGGAATCACGCCACTGCTGAGGACCTGGGGGCTGCCTAGT
GGAGTATATGACCAAGGTGCACGCTCTGGAACAAGTCAGCCAGGAGCTGGAGACACAACACGGGCTCAC
TTGGAGAGCAAGGCCAAGCGCTCCGGAGGCTGGGATGCCCTCCGTGCCTCCTGGGCCAGCAGCTACCAGC
AGGTGGGAGAGGCCGTCTTGAAAATGCCGACTCATGCTGCAGATGGAGACCATCCAGGCCGCTGCGGA
TGACTTTAAAGAGAGGTATGAGAACGAGCAGCCATTCAGGAAGGCGCGGAAGAGGAAGTCAGCTCCCTG
TACAAAGTCATCGATGAAGCTAATTTGACGAAGACGGATCTGGAGCATCAAATCGAAAGCCTGAAAGAAG
AACTGGGCTCTGTCAAGAAGCTATGAAGAGGATGTGAAGTTCTGTACAAACAGCTGGCGGGTCTGA
GCTGGAGCAAACAGATGTTCCCATGGGCACTGGTCTGGATGATGTCTTGAGACGATCCGAGTTCAGTGG
GAGAGAGATGTGAAAAGAACCAGCAGAAAGCAGGAGCTGTGCTCCAAGCTAAGCAGCAGACAGAGGTAG
TCCATGTATCCCAGACCAAGAAGAAAAGCTGGCCGCTGCCCTCAGTGTAGAGTTACACGACACTTCACG
CCAAGTCCAGAGTCTCCAGGCTGAGACAGAATCTTTACGGGCTCTGAAACGAGGCCTGAAAAACACCTTG
CACGATGCCAAGCACTGGCATGATGGAACGAGAACCTGGTGGCCTGGTGGCAGGCTGGAGGCGAG
AGCTGGCAGAGATCCACTCAGAGACAGAGCAGCAACAGCAGGAGCGGGCACACCTGCTGGCTGCAAGGG
CCAGCTACAGAAGGATGTGGCATCTACCACGCCCTGCTGGACAGAGAGGAGAGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216614 representing NM_001277434
 Red=Cloning site Green=Tags(s)

MSERRVAMDLPSGSNASMP LQRHRVSSLRGTRSPSSLDSPASRTSAVGS LVRAPGVYVGVAPSGGIGGL
 GARVTRRALGISSVFLQGLRSSGLATAPAPGPERNHATAEDLGGCLVEYMTKVHAEVVSQLETLQLRAH
 LESKAKRSGGWDALRASWASSYQQVGEAVLENARMLMQMETIQAGADDFKERYENEQPFRKAAEEEVSSL
 YKVIDEANLTKTDLEHQIESLKEELGSLRSYEEDEVKVLKQLAGSELEQTDVPMGTGLDDVLETIRVQW
 ERDVEKNRAEAGAVLQAKQQTEVVHVVSQTQEELAAALSVELHDTSRQVQSLQAETESLRALKRGLNTL
 HDAKHWDMELQNLGAVVGRLEAELAEIHSETEQQQQRRAHLLACKGQLQKDVASYHALLDREESN

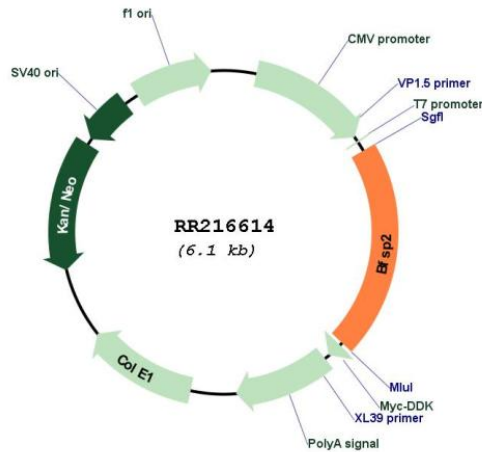
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001277434

ORF Size:	1248 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_001277434.1 , NP_001264363.1
RefSeq Size:	1549 bp
RefSeq ORF:	1251 bp
Locus ID:	501046
UniProt ID:	D3ZER2
Cytogenetics:	8q32
MW:	45.7 kDa
Gene Summary:	Required for the correct formation and organization of lens intermediate filaments as part of a complex composed of BFSP1, BFSP2, AND CRYAA.[UniProtKB/Swiss-Prot Function]