

## Product datasheet for **RC230417**

### splicing factor 1 (SF1) (NM\_001178030) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	splicing factor 1 (SF1) (NM_001178030) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	splicing factor 1
Synonyms:	BBP; D11S636; MBBP; ZCCHC25; ZFM1; ZNF162
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC230417 representing NM\_001178030  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCGACCGGAGCGAACGCCACGCCGTTGGGTAACTGGGCCCGCCCGGCTGCCCGCTCCCCGGG  
 CCAAAGGAGGCTTCGAGCCGGGCCCTCCGCTGCACCCGGGCTGGGGCGGGGCTGCTGGCTCCCGGGC  
 GCCGCCGCCCGCCCGTGGGCTCGATGGGGGCCCTGACCGCGGCCCTCCCTTCGCGGCGCTGCCTCCG  
 CCGCTCCGCGCGCCCGCTCCGCTCCCGAGCAGCGCGCGCCCTCCACCGCACCGTCCCCGGCG  
 CCTCGTACCCGCCCGCAGCGCCCGCTCCGCCCGCTCTACCAGCGCGTGTGCGCGCCGAGCCGCC  
 GCCACCCAGCCCGCGTAAGGACCAGCAGCGGGCCCGCGCGCGGAGGAGACTTCCAAGTAAG  
 AAGCGGAAGAGGCGCTGGAACCAAGACACAATGGAACAGAAGACAGTGATCCAGGAATGCCTACAG  
 TTATCCCGCTGGACTTACTCGAGAACAAGAAAGAGCTTATATAGTGCAACTGCAGATAGAAGACCTGAC  
 TCGTAAACTGCGCACAGGAGACCTGGGCATCCCCCTAACCTGAGGACAGGTCCCCTTCCCTGAGCCC  
 ATCTACAATAGCGAGGGGAAGCGGCTTAACACCCGAGAGTTCCGCACCCGAAAAAGCTGGAAGAGGAGC  
 GGCACAACCTCATCACAGAGATGGTTGCACTCAATCCGGATTTCAAGCCACCTGCAGATTACAACTCC  
 AGCAACACGTGTGAGTGATAAAGTCATGATCCACAAGATGAGTACCCAGAAATCAACTTGTGGGGCTG  
 CTCATCGGGCCAGAGGGAACACCCTGAAGAACAATAGAGAAGGAGTGCAATGCCAAGATTATGATCCGGG  
 GGAAGGGTCTGTGAAAGAAGGGAAGGTTGGGCGCAAAGATGGCCAGATGTTGCCAGGAGAAGATGAGCC  
 ACTTCAATGCCCTGGTACTGCCAATAACAATGGAGAACGTCAAAAAGGCAGTGGAACAGATAAGAAACATC  
 CTGAAGCAGGGTATCGAGACTCCAGAGGACCAGAATGATCTACGGAAGATGCAGCTTCGGGAGTTGGCTC  
 GCTTAAATGGGACCCCTTCGGGAAGACGATAACAGGATCTTAAGACCCTGGCAGAGCTCAGAGACCCGAG  
 CATTACCAACACCACAGTGTGTACCAAGTGTGGAGGGGCTGGCCACATTGCTTCAGACTGTAAATCCAA  
 AGGCCTGGTGATCCTCAGTCAGCTCAGGATAAAGCACGGATGGATAAAGAATATTTGTCCCTCATGGCTG  
 AACTGGGTGAAGCACCTGTCCCAGCATCTGTGGGCTCCACCTCTGGGCTGCCACCACACCCTGGCCAG  
 CGCACCTCGTCTGCTGCTCCCGCAACAACCCACCTCCACCGTCTCTCATGTCTACCACCAGAGCCGC  
 CCACCCTGGATGAATTCTGGCCCTCAGAGAGTCGGCCCTACCACGGCATGCATGGAGGTGGTCTGGTG  
 GGCCCGGAGGTGGCCCCACAGCTTCCCACACCATTACCAGCCTGACAGGTGGGCATGGTGGACATCC  
 CATGCAGCACAACCCCAATGGACCCCAACCCCTTGGATGCAGCCACCACCACCAGATGAACCAGGGC  
 CCCACCCCTCTGGGCACCATGGCCCTCCTCAATGGATCAGTACCTGGGAAGTACGCTGTGGGCTCTG  
 GGGTCTATCGCCTGCATCAAGGAAAAGGTATGATGCCGCCACCACCTATGGGCATGATGCCGCCCGCC  
 GCCGCTCCAGTGGGACGCCCCACCCCTCCCTCTGGTCTTCCCCATGGCAACAACAGCAGCAG  
 CAGCCTCCGCCACCCCTCCGCCAGCAGCAGTATGGCTTCCAGTACCCCTTGGCATGGCAGAAAGAT  
 CCTCCCCGCGCGGCGATGGCCCGAGCCATGAGAGTGAGGACTTCCGCGCCATTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230417 representing NM\_001178030  
 Red=Cloning site Green=Tags(s)

MATGANATPLGKLGPPGLPPLPGPKGGFEPGPPAPGPGAGLLAPGPPPPPPVGSMGAL TAAFPAALPP  
 PPPPPPPPPQPPPPPPSPGASYPPPPPPPL YQRVSPQPPPPPPRDKDQGPAGGGDFPSK  
 KRKRSRWNQDTMEQKTVIPGMP TVIPGL TREQERAYIVQLQIEDLTRKLRTGDLGIPNPEDRSPSEP  
 IYNSEGKRLNTRFRTKKLEEEERHNL I TEMVALNPDFKPPADYKPPATRVSDKVMIPQDEYPEINFGVGL  
 LI GPRGNTLKNIEKECNAKIMIRGKGSVKEGKVRKDGQMLPGEDEPLHALVTANTMENVKKAQEIRNI  
 LKQGIETPEDQNDLRKMQRLRELARLNGTLREDDNRILRPWQSSETRITNTTCTKCGGAGHIASDCKFQ  
 RPKGDPQSAQDKARMDKEYLSLMAELGEAPVPASVGSTSGPATTPLASAPRPAAPANNPPPSLMSTTQSR  
 PPWMNSGPSESRPYHGMHGGGGPGGGPHSFPHPLPSL TGGHGGHPMQHNPNGPPPPWMPPPPMNQG  
 PHPPGHGPPMDQYLGSTPVSGVYRLHQGKGMPPPPMGMPPPPPPSGQPPPPPSGLPPWQQQQQ  
 QPPPPPPSSMASSTPLPWQQRSLPAAAMARAMRVRTFRAHW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001178030

**ORF Size:** 2019 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:** [NM\\_001178030.2](#)

**RefSeq ORF:** 2022 bp

**Locus ID:** 7536

**UniProt ID:** [Q15637](#)

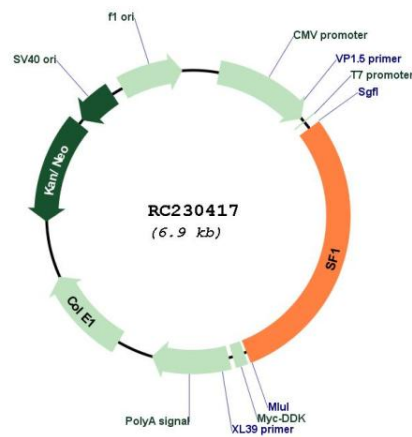
**Cytogenetics:** 11q13.1

**Protein Families:** Transcription Factors

**MW:** 72.2 kDa

**Gene Summary:** This gene encodes a nuclear pre-mRNA splicing factor. The encoded protein specifically recognizes the intron branch point sequence at the 3' splice site, together with the large subunit of U2 auxiliary factor (U2AF), and is required for the early stages of spliceosome assembly. It also plays a role in nuclear pre-mRNA retention and transcriptional repression. The encoded protein contains an N-terminal U2AF ligand motif, a central hnRNP K homology motif and quaking 2 region which bind a key branch-site adenosine within the branch point sequence, a zinc knuckles domain, and a C-terminal proline-rich domain. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2016]

## Product images:



Circular map for RC230417