

Product datasheet for **RG230417**

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:	TurboGFP
Symbol:	splicing factor 1
Synonyms:	BBP; D11S636; MBBP; ZCCHC25; ZFM1; ZNF162
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG230417 representing NM_001178030
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGACCGGAGCGAACGCCACGCCGTTGGTAAAGCTGGGCCCGCCCGGCTGCCCGCTCCCGGGC
 CCAAAGGAGGCTTCGAGCCGGGCCCTCCGCTGCACCCGGGCTGGGGCGGGGCTGCTGGCTCCCGGGC
 GCCGCCGCCCGCCCGTGGGCTCGATGGGGGCCCTGACCGCGGCTTCCCTTCGCGGCGCTGCCTCCG
 CCGCTCCGCGCGCCCGCTCCGCTCCCGAGCAGCGCGCGGCTCCACCGCACCGTCCCGGGC
 CCTCGTACCGCGCCGAGCGCCCGCTCCGCGCGCTCTACCAGCGGTGTGCGCGCCGAGCGCC
 GCCACCCAGCGCGCGTAAGGACCAGCAGCGGGCCCGCGCGGAGGAGACTTCCAAGTAAG
 AAGCGGAAGAGGCGCTGGAACCAAGACACAATGGAACAGAAGACAGTGATCCAGGAATGCCTACAG
 TTATCCCGCTGGACTTACTCGAGAACAAGAAAGAGCTTATATAGTGCACTGCAGATAGAAGACCTGAC
 TCGTAAACTGCGCACAGGAGACCTGGGCATCCCCCTAACCTGAGGACAGGTCCCCTTCCCTGAGCCC
 ATCTACAATAGCGAGGGGAAGCGGCTTAACACCCGAGAGTTCCGACCCGCAAAAAGCTGGAAGAGGAGC
 GGCACAACCTCATCACAGAGATGGTTGCACTCAATCCGGATTTCAAGCCACCTGCAGATTACAACTCC
 AGCAACACGTGTGAGTGATAAAGTCATGATCCACAAGATGAGTACCCAGAAATCAACTTGTGGGGCTG
 CTCATCGGGCCAGAGGGAACACCTGAAGAACATAGAGAAGGAGTGCAATGCCAAGATTATGATCCGGG
 GAAAGGGTCTGTGAAAGAAGGGAAGGTTGGGCGCAAAGATGGCCAGATGTTGCCAGGAGAAGATGAGCC
 ACTTATGCCCTGGTACTGCCAATAACAATGGAGAACGTCAAAAGGCAGTGGAACAGATAAGAAACATC
 CTGAAGCAGGGTATCGAGACTCCAGAGGACCAGAATGATCTACGGAAGATGCAGCTTCGGGAGTTGGCTC
 GCTTAAATGGGACCTTCGGGAAGACGATAACAGGATCTTAAGACCTGGCAGAGCTCAGAGACCCGAG
 CATTACCAACACCACAGTGTGTACCAAGTGTGGAGGGGCTGGCCACATTGCTTCAGACTGTAAATCCAA
 AGGCCTGGTGATCCTCAGTCAGCTCAGGATAAAGCACGGATGGATAAAGAATATTTGTCCCTCATGGCTG
 AACTGGTGAAGCACCTGTCCCAGCATCTGTGGCTCCACCTCTGGGCTGCCACCACACCCCTGGCCAG
 CGCACCTCGTCTGCTGCCGCAACAACCCACCTCCACCGTCTCTCATGTCTACCACCAGAGCCGC
 CCACCTGGATGAATTCTGGCCCTCAGAGAGTCGGCCCTACCACGGCATGCATGGAGGTGGTCTGGTG
 GGCCGGAGGTGGCCCCACAGCTTCCCACACCCATTACCAGCCTGACAGGTGGCATGGTGGACATCC
 CATGCAGCACAACCCCAATGGACCCCAACCCCTTGGATGCAGCCACCACCACCGATGAACCAGGGC
 CCCACCTCCTGGGCACCATGGCCCTCCTCAATGGATCAGTACCTGGGAAGTACGCTGTGGGCTCTG
 GGGTCTATCGCCTGCATCAAGGAAAAGGTATGATGCCGCCACCACCTATGGGCATGATGCCGCCCGCC
 GCCCCTCCAGTGGGACGCCCCACCCCTCCCTCTGGTCTTCCCCATGGCAACAACAGCAGCAG
 CAGCCTCCGCCACCCCTCCGCCAGCAGCAGTATGGCTTCCAGTACCCCTTGGCATGGCAGAAAGAT
 CCTCCCCGCGGCGGATGGCCCGAGCCATGAGAGTGAGGACTTCCGCGCCATTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG230417 representing NM_001178030
 Red=Cloning site Green=Tags(s)

MATGANATPLGKLGPPGLPPLPGPKGGFEPGPPAPGPGAGLLAPGPPPPPPVGSMGAL TAAFPAALPP
 PPPPPPPPPQPPPPPPSPGASYPPPQPPPPPL YQRVSPQP PPPQPPRDKDQGPAGGGDFPSK
 KRKRSRWNQDTMEQKTVIPGMPTVIPGL TREQERAYIVQLQIEDLTRKLRTGDLGIPPNPEDRSPSEP
 IYNSEGKRLNTRREFRTRKKLEEEERHNL I TEMVALNPDFKPPADYKPPATRVSDKVMIPQDEYPEIN FVGL
 LI GPRGNTLKNIEKECNAKIMIRGKGSVKEGKVG RKDQGMLPGEDEPLHALVTANTMENVK KAVEQIRNI
 LKQGIETPEDQNDLRKMQRLRELARLNGTLREDDNRILRPWQSSETR SITNTTCTKCGGAGH IASDCKFQ
 RPDGPPQSAQDKARMDKEYLSLMAELGEAPVPASV GSTSGPATTPLASAPRPAAPANNPPPSLMSTTQSR
 PPWMNSGPSESRPYHGMHGGGGPGGGPHSFP HPLPSL TGGHGGHPMQHNPNGPPPPWMP PPPPMNQG
 PHPPGHHGPPMDQYLGSTPVSGVYRLHQGKGM MPPPPMGMPPPPPPSGQPPPPPSGLPPWQQQQQ
 QPPPPPPSSMASSTPLPWQQRSLPAAAMARAMRVRTFRAHW

TRTRPLE - GFP Tag - V

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 Size: 2946 bp

RefSeq ORF: 2022 bp

Locus ID: 7536

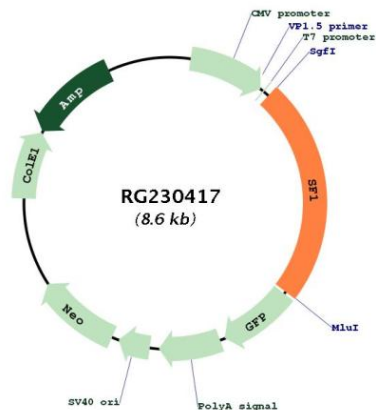
UniProt ID: [Q15637](#)

Cytogenetics: 11q13.1

Protein Families: Transcription Factors

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 RG230417