

Product datasheet for **RG230349**

splicing factor 1 (SF1) (NM_001178031) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	splicing factor 1 (SF1) (NM_001178031) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SF1
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:

>RG230349 representing NM_001178031
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAACAGAAGACAGTATTCCAGGAATGCCTACAGTTATCCCCCTGGACTTACTCGAGAACAAGAAA
 GAGCTTATATAGTGCAACTGCAGATAGAAGACCTGACTCGTAAACTGCGCACAGGAGACCTGGGCATCCC
 CCTAACCCCTGAGGACAGGTCCCCTTCCCCTGAGCCATCTACAATAGCGAGGGGAAGCGCTTAACACC
 CGAGAGTTCGCGACCCGCAAAAAGCTGGAAGAGGAGCGGCACAACCTCATCACAGAGATGGTTGCACTCA
 ATCCGGATTTCAAGCCACCTGCAGATTACAAAACCTCCAGCAACACGTGTGAGTGATAAAGTCATGATTCC
 ACAAGATGAGTACCCAGAAATCAACTTTGTGGGGCTGCTCATCGGGCCAGAGGGAACACCCTGAAGAAC
 ATAGAGAAGGAGTGCAATGCCAAGATTATGATCCGGGGAAAGGGTCTGTGAAAGAAGGGAAGGTTGGGC
 GCAAAGATGGCCAGATGTTGCCAGGAGAAGATGAGCCACTTCATGCCCTGGTTACTGCCAATAACAATGGA
 GAACGTCAAAAAGGCAGTGAACAGATAAGAAACATCCTGAAGCAGGGTATCGAGACTCCAGAGGACCAG
 AATGATCTACGGAAGATGCAGCTTCGGGAGTTGGCTCGCTTAAATGGGACCCTTCGGGAAGACGATAACA
 GGATCTTAAGACCCTGGCAGAGCTCAGAGACCCGAGCATTACCAACACCACAGTGTGTACCAAGTGTGG
 AGGGGCTGGCCACATTGCTTCAGACTGTAAATCCAAAGGCTGGTGATCCTCAGTCAGCTCAGGATAAA
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 CGGCCCTACCACGGCATGCATGGAGTGGTCTTGGTGGGCCGGAGGTGGCCCCACAGTCTCCACACC
 CATTACCAGCCTGCAGGTGGGCATGGTGACATCCCATGCAGCACAAACCCCAATGGACCCCAACCC
 TTGGATGCAGCCACCACCACCACCGATGAACCAGGGCCCCACCCTCTGGGCACCATGGCCCTCCTCCA
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 TGCCGCCACCACCTATGGGCATGATGCCGCCGCCGCCGCCCTCCAGTGGGCAGCCCCACCCCTCC
 CTCTGGTCTCTTCCCCATGGCAACAACAGCAGCAGCAGCCTCCGCCACCCCTCCGCCAGCAGCAGT
 ATGGCTTCCAGTACCCCTTGCCATGGCAGCAAAATACGACGACTACCACCACGAGCGTGGCACAGGGT
 CCATCCCGCATGGCAACAGCAGCAGCGGCTGCCGAGCTTCTCCAGGAGCCCCCAGATGCAAGGCAA
 CCCCCTATGGTGGCCCTGCCGCCGGGTCCAGCCGCTCTGCCGCTGGGGCCCTCCCTCCGCCG
 CCTCCACCGCTGGTCCGCCGGCATGATGATGCCCCGCCCTCCTCCTCCGCTCCCATGGACCCTT
 CTAACCTTTGTACCATGATGGGCATGGGGTGGCGGCATGCCGCCCTTCGGGATGCCTCCAGCTCCCC
 ACCGCTCCACCAGAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230349 representing NM_001178031
 Red=Cloning site Green=Tags(s)

MEQKTVIPGMPTVIPPGLTREQERAYIVLQIEDLTRKLRTGDLGIPPNPEDRSPSPEPIYNSEGKRLNT
 REFRRTRKLEERHNLITEMVALNPDFKPPADYKPPATRVSDKVMIPQDEYPEINFGVLLIGPRGNTLKN
 IEKECNAKIMIRGKGSVKEGKVRKDGQMLPGEDEPLHALVTANTMENVKKAQVEQIRNILKQGIETPEDQ
 NDLRKMQRLRELARLNGTLREDDNRILRPWQSSETRITNTTVCTKCGGAGHIASDCKFQRPQSAQDK
 ARMDKEYLSLMAELGEAPVPASVGSTSGPATTPLASAPRPAAPANNPPPPSLMSTTQSRPPWMNSGPSES
 RPYHGMHGGGPGGPGGPHSFPHPPLPSLTGGHGHMPQHNPNGPPPPWQPPPPPMNQPHPPGHGPPPP
 MDQYLGSTPVGSGVYRLHQGKGMPPPPMGMPPPPPPSGQPPPPPSGLPPWQQQQQPPPPPPSSS
 MASSTPLPWQNTTTTTTSAGTGSIPPWQQQAAAAASPAPQMQGNPTMVPPLPGVQPPLPPGAPPPPP
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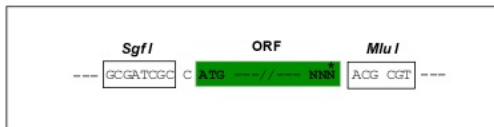
TRTRPLE – GFP Tag – V

Restriction Sites:

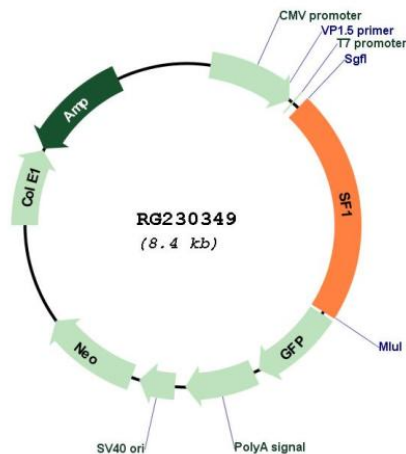
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001178031
 ORF Size: 1839 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_001178031.3
RefSeq Size:	3365 bp
RefSeq ORF:	1842 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]