

Product datasheet for **SC121559**

splicing factor 1 (SF1) (NM_201997) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	splicing factor 1 (SF1) (NM_201997) Human Untagged Clone
Tag:	Tag Free
Symbol:	splicing factor 1
Synonyms:	BBP; D11S636; MBBP; ZCCHC25; ZFM1; ZNF162
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC121559 sequence for NM_201997 edited (data generated by NextGen Sequencing)

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ATGGCGACCGGAGCGAACGCCACGCCGTTGGACTTCCCAAGTAAGAAGCGGAAGAGGAGC
CGCTGGAACCAAGACACAATGGAACAGAAGACAGTGATTCCAGGAATGCCTACAGTTATT
CCCCCTGGACTTACTCGAGAACAAGAAAGAGCTTATATAGTGCAACTGCAGATAGAAGAC
CTGACTCGTAAACTGCGCACAGGAGACCTGGGCATCCCCCTAACCTGAGGACAGGTCC
CCTTCCCCTGAGCCCATCTACAATAGCGAGGGGAAGCGGTTAACACCCGAGAGTCCGC
ACCCGCAAAAAGCTGGAAGAGGAGCGGCACAACCTCATCACAGAGATGGTTGCACTCAAT
CCGGATTTCAAGCCACCTGCAGATTACAACCTCCAGCAACACGTGTGAGTGATAAAGTC
ATGATTCCACAAGATGAGTACCCAGAAATCAACTTTGTGGGGCTGCTCATCGGGCCAGA
GGGAACACCTGAAGAACATAGAGAAGGAGTGCAATGCCAAGATTATGATCCGGGGGAAA
GGGTCTGTGAAAGAAGGGAAGGTTGGGCGCAAAGATGGCCAGATGTTGCCAGGAGAAGAT
GAGCCACTTCATGCCCTGGTACTGCCAATAAATGGAGAACGTCAAAAAGGCAGTGGA
CAGATAAGAAACATCCTGAAGCAGGTATCGAGACTCCAGAGGACCAGAATGATCTACGG
AAGATGCAGCTTCGGGAGTTGGCTCGCTTAAATGGGACCTTCGGGAAGACGATAACAGG
ATCTTAAGACCCTGGCAGAGCTCAGAGACCCGCAGCATTACCAACACCACAGTGTGTACC
AAGTGTGGAGGGGCTGGCCACATTGCTTCAGACTGTAAATTCAAAGGCCTGGTGATCCT
CAGTCAGCTCAGGATAAAGCACGGATGGATAAAGAATATTTGTCCCTCATGGCTGAAGT
GGTGAAGCACCTGTCCCAGCATCTGTGGGCTCCACCTCTGGGCTGCCACCACACCCCTG
GCCAGCGCACCTCGTCTGTCTGCCGCCAACACCCACCTCCACCGTCTCTCATGTCT
ACCACCCAGAGCCGCCACCCCTGGATGAATTCTGGCCCTTCAGAGAGTCGGCCCTACCAC
GGCATGCATGGAGGTGGTCTGGTGGGCCCGGAGGTGGCCCCACAGCTTCCCACACCCA
TTACCCAGCTGACAGGTGGCATGGTGGACATCCCATGCAGCACACCCCAATGGACCC
CCACCCCTTGGATGCAGCCACCACCACCGATGAACCAAGGGCCCCACCCCTCCTGGG
CACCATGGCCCTCCTCAANNNNNNNTCAGTACCTGGGAAGTACGCCTGTGGGCTCTGG
GGTCTATCGCCTGCATCAAGGAAAAGGTATGATGCCGCCACCACCTATGGGCATGATGCC
GCCGCCGCCGCCCTCCAGTGGGCAGCCCCACCCCTCCCTCTGGTCTCTTCCCCC
ATGGCAACAACAGCAGCAGCAGCCTCCGCCACCCCTCCGCCAGCAGCAGTATGGCTTC
CAGTACCCCTTGCCATGGCAGCAAAGATCCCTCCCCGGCGGGGATGGCCCGAGCCAT
GAGAGTGAGGACTTCCGCGCCATTGGTGACCCTTCAGGCAGACAGCCTCAGCAACGC
CCCTGGTGGACAGGATGGTTCGGCAAAGCAGCCTGA
    
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Clone variation with respect to NM_201997.2
 1340 t=>n;1341 g=>n;1342 g=>n;1343 g=>n;1344 t=>n;1345 a=>n;1346 a=>n;1347 a=>n

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_201997 unedited
AATATCCCCCGCCGTTGGCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA
GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCG
CGAATTCGGCACGAGGGCCGCTGAGAGGACGGGCTCCGCGCGCTCCGGCAGCGCATTCCG
GGTCCCCTCCCCCGGGAGGCTTGCAGAGGAGAAGCCGCCAGAGGAAAAGCAGGTGCC
GGTGCCTGTCCCCGGGGCGCCATGGCGACCGGAGCGAACGCCACGCCGTTGGACTTCCC
AAGTAAGAAGCGGAAGAGGAGCCGCTGGAACCAAGACACAATGGAACAGAAGACAGTGAT
TCCAGGAATGCCTACAGTTATCCCCCTGGACTTACTCGAGAACAAGAAAGAGCTTATAT
AGGTAAATATACGTTCTGCATCCAAATGCACTTTGAGAGTGTTACGAGTTATTCTGAGCA
AGAGCTGCATTTTTGAAAGTTTGAAGTGTAGTTATCTTTTTTGAGATGAGAGACTTTC
ACGACTTTGGTATCATCTGTGAGTTTTTGCAGTGTGATTTGAGATTTGCAGCTCCTTGT
TTTTGGTCTGTTCTGTAAGTGCAGTGTCTCCATGAGTATCAGGAAGGTAGGGTTTCACTTA
GGAGTAAGAACAGTCCTCAGTCCAGCAGCCACCCTTTTTCAGTGTGTTTATTGCCAGTT
GATGAGGTGAGTGCATCTGCCTCTCTGGACAGGCCCCAGTGGAGAGCACTGCTAGTACT
GNTCACCAAGTACTTTTACAGCGTGGCCTTTACCATCATNTATATTTCTCCCCCTAG
AAGNGGNCCTTTACTTTTATAGTACTTTTCTGAAGCAAAAATGACACAAGTGGTCTG
AAGTGGTGTACAGTTACCTCTTTATTTCTTGAAGTTAGAGTTAC
    
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Restriction Sites:	NotI-NotI
ACCN:	NM_201997
Insert Size:	2900 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:	<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:	<u>NM_201997.1</u> , <u>NP_973726.1</u>
RefSeq Size:	1001 bp
RefSeq ORF:	243 bp
Locus ID:	7536
Cytogenetics:	11q13.1
Protein Families:	Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) has multiple coding region differences, compared to variant 1, one of which results in a frameshift. It encodes isoform 4, which is shorter and has a distinct C-terminus, compared to isoform 1.</p>