

Product datasheet for **SC110780**

SPSB1 (NM_025106) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPSB1 (NM_025106) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPSB1
Synonyms:	SSB-1; SSB1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110780 sequence for NM_025106 edited (data generated by NextGen Sequencing)

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ATGGGTCAGAAGGTCACCTGGAGGGATCAAGACTGTGGACATGAGGGACCCACGTACAGG
CCCCTGAAGCAGGAGCTCCAGGGTCTGGATTACTGCAAGCCACCCGGCTGGATCTGCTA
CTGGACATGCCCCCTGTGTCTATGATGTCCAGCTGCTGCATTGGAACAACAACGAC
CGATCGCTCAATGTCTTTGTAAGGAGGACGACAAGCTCATCTTTCACCGGCATCCGGTG
GCCAGAGCACGGACGCTATCAGGGGCAAAGTCGGGTATACCCGTGGGCTGCACGTGTGG
CAGATCACGTGGGCCATGAGACAGCGGGGCACACACGCCGTGGTGGGGTGGCGACGGCA
GACGCCCCCTGCACTCTGTCCGGTACACAACCCTCGTGGGAATAACCACGAGTCCTGG
GGCTGGGACTTGGGGCGCAACCGGCTCTACCACGATGGCAAGAACCAGCCAAGCAAACA
TACCCAGCCTTTCTGGAACCAGATGAGACATTCATTGTCCCTGACTCCTCCTGGTAGCC
CTGGACATGGACGACGGGACTCTGAGCTTCATTGTGGATGGACAGTACATGGGAGTGGCT
TTTCGGGGACTCAAGGGCAAAAACTGTATCCTGTAGTGAGTGCCGTCTGGGGCCACTGT
GAGATCCGAATGCGCTACTTGAACGGACTCGATCCCGAGCCGCTGCCGCTCATGGATTTG
TGCCGTGCTCGGTGCGCCTGGCCCTGGGGAGGGAGCGCCTGGGGGAGATCCACACGCTG
CCGCTGCCGGCTCCCTCAAGGCCTACCTCCTTACCAGTGA

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Clone variation with respect to NM_025106.3
201 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_025106 unedited TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTCTCCTGGCAGCCCTCA TTAGGAATTCTGTCTGGCCCCGATCAGAATACTGGAGACGAGACCACGAGATTGATGAGT TTGCCTTGGGAGTCGGTAAGAAGGTGAAGCCAGGGGCGAACATGGGTGAGAAGGTCACTG GAGGGATCAAGACTGTGGACATGAGGGACCCACGTACAGGCCCTGAAGCAGGAGCTCC AGGGTCTGGATTACTGCAAGCCACCCGGCTGGATCTGCTACTGGACATGCCCCCTGTGT CCTATGATGTCCAGCTGCTGCATTCATGGAACAACAACGACCCGATCGCTCAATGTCTTTG TAAAGGAGGACGACAAGCTCATCTTTACCGGCATCCGGTGGCCAGAGCACGGACGCTA TCAGGGGCAAAGTCGGGTATACCCGTGGGCTGCACGTGTGGCAGATCACGTGGGCCATGA GACAGCGGGGCACACACGCCGTGGTGGGGTGGCGACGGCAGACGCCCCCTGCACTCTG TCGGGTACACAACCCTCGTGGGGAATAACCACGAGTCTGNGGCTGGGACTTGGGGCGCA ACCGGCTCTACCACGATGGCAAGAACCAGCCAAGCAAAACATAACCAGCCTTTCTGGAAC CAGATGAGACATTATTGTCCCTGACTCCTTCTGGTAGCCCTGGACATGGACGACGGGA CTCTGAGCTTCATTGTGGATGGACAGTACATGGGAGTGGCTTTTCGGNGACTCAAGGGCA NAAACTGTATCCTGTANTGAGTCCGTCTGGGCCACTGTGAGATCCGATGCGCTACTTGA ACGACTCGATCCCGACCGCTGCCCTCATGGATTGTGCCGTGCTCGTGCCTGNNCCT GGGNAGGGGACGCTGGGGGAGATCACCCGTGCCCC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_025106 unedited NCCCTTCTCTGNNACCGCGCCGATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTGGATA TTTTAAACAAACGTTCTTTATTAGGTTACTGACTATTATCAACCATCATAAAATAGAACG GGAGTTTCAAAACTGTACAAGCCACAAGGCTCTGGGCTGGTAGGAAAGAAGGGTGGGGTC GAGGGTCCAGGGTGTCTGGGGGGTGGGAGATGCAGAGAGAGCTAGAGGGTCACCCGCAT CTGTGAGGACGGCTGGTCAAGGCCATAAGCTGGGATCTGTACAAGGAAACATTATCA GAATGTGACCCACCTGAAACAGGAGGGAGAAAATCTTTAAAAGTCTTACAGGTAAAGTC CCCTGCCCCGAAAAAAAAAACCGTCAAAATAATAAGGGGGTAAATGACATTTCTCACCCA GTCTTGGCACCAATTTTGTGCTTTAAAAAATACTCCACTGTAAGATTTACTTAAAAAA AGGTACTCTACAGCAGCTGTTTAAAAACATAATTCTTACAGACAAATATATATATATGAT GTATATATATTAACATTTTAAACAAATAAAGTCATCTATTGTACCTGTGCAGAAATGAA CCAAAGTTAGACTCTAAGAGAGTTAACTTCAAGCTCAAAGAAATGGCAAAGGCGGTGGCA GGTGCTGGGGTACGCTACGTGGAGGGTTGCCAGGGATAGGGCACCCCTCTTTTNCGCA GCCGACTACCCCTCTTTGAGCTCTGANAGGGGGTNGGGATGAACTGNNGCTGTTACCCC TGGTCCANAGCCCNGCTGGGGTCTGAGCANAGACCGCCTGGCTTCTGTGAGGCTCGA CTCTGCTCTTGGTCTTCCATCCCACCTGCCNTGCTCTCGGGGAATGAGACCCCTCGCC TCCTTCTAGTCTGGGGCCTCTGCCACCAGAC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_025106
Insert Size:	2890 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:

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_025106.2](#), [NP_079382.2](#)

RefSeq Size: 3081 bp

RefSeq ORF: 822 bp

Locus ID: 80176

UniProt ID: [Q96BD6](#)

Cytogenetics: 1p36.22

Domains: SPRY

Protein Families: Druggable Genome

Gene Summary: Substrate recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:15601820, PubMed:21199876). Negatively regulates nitric oxide (NO) production and limits cellular toxicity in activated macrophages by mediating the ubiquitination and proteasomal degradation of NOS2 (PubMed:21199876). Acts as a bridge which links NOS2 with the ECS E3 ubiquitin ligase complex components ELOC and CUL5 (PubMed:21199876).[UniProtKB/Swiss-Prot Function]