

Product datasheet for **RC203566**

SPSB4 (NM_080862) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPSB4 (NM_080862) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPSB4
Synonyms:	SSB-4; SSB4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203566 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCAGAAGCTCTCGGGGAGCCTCAAGTCAGTGGAGGTGCGAGAGCCGGCGCTGCGGCCGGCCAAGC
GGGAGCTGCGGGTGCAGAGCCCGGGCGCCGGCGCGCTGGACCAGCTGTTGGACATGCCAGCGGGCGG
GCTGGCTGTGCAGCTGCGGCACGCGTGAACCCCGAGGACCGCTCGCTCAACGTCTTCGTC AAGGACGAC
GACCGGCTCACCTTCCACCGGCACCCCGTGGCCAGAGCACCGACGGCATCCGCGCAAGGTGGGCCACG
CCCGCGGCTGCACGCCTGGCAGATCAACTGGCCGGCTCGGCAGCGCGGACCCACGCTGTAGTTGGTGT
GGCCACGCGCCGTGCTCCCTGCACTCCGTGGGTACACGGCGCTGGTAGGCAGTGACGCCGAGTCGTGG
GGCTGGGACCTGGGCCGAGCCGCTCTACCACGACGGCAAGAACCAGCCCGGCGTGGCCTACCCGGCCT
TTCTGGGGCCCGACGAGGCCTTTGCGCTGCCCGACTCGCTGCTCGTGGTGTGGACATGGATGAGGGCAC
ACTCAGCTTATCGTGGATGGCCAGTACCTGGGCGTGGCCTTCCGAGGTCTCAAGGGCAAGAAGCTGTAC
CCGGTGGTGAAGTCCGTGTGGGGCACTGTGAAGTCACCATGCGTACATCAACGGCCTTGACCCCGAGC
CCCTGCCACTGATGGACCTGTGCCGAGATCCATCCGCTCGGCCCTGGGCCGCCAGCGCCTGCAGGACAT
CAGCTCCCTGCCCTGCCTCAGTCTCTCAAAAATATCTGCAGTACCAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203566 protein sequence
Red=Cloning site Green=Tags(s)

MGQKLSGSLKSVEVREPALRPAPKRELGAEPGRPARLDQLLDMPAAGLAVQLRHAWNPEDRSLNVFVKDD
 DRLTFHRHPVAQSTDGIRGKVGHARGLHAWQINWPARQGRTHAVVGVATARAPLHSVGYTALVGSDAESW
 GWDLGRSRLYHDGKNQPGVAYPAFLGPDEAFALPDSLLVVLDMDEGTLSEIVDGGQYLGVAFRGLKGGKLY
 PVVSAVWGHCEVTMRYPINGLDPEPLPLMDLCRRSIRSALGRQLQDISSLPLPQSLKNYLQYQ

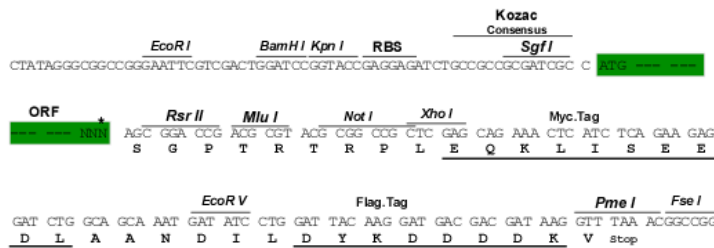
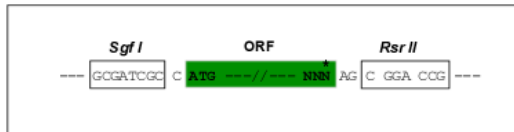
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6801_g02.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_080862

ORF Size: 819 bp

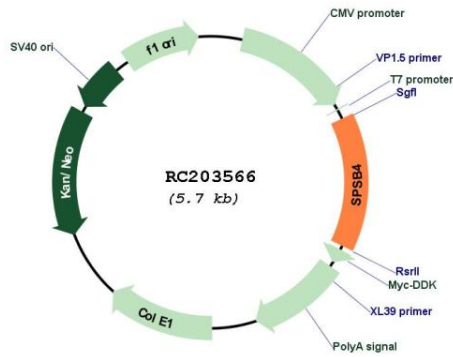
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

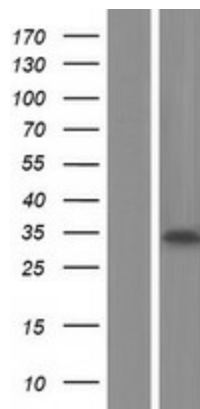
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_080862.3
RefSeq Size:	2455 bp
RefSeq ORF:	822 bp
Locus ID:	92369
UniProt ID:	Q96A44
Cytogenetics:	3q23
Domains:	SPRY
Protein Families:	Druggable Genome
MW:	30.2 kDa
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:21199876, PubMed:15601820). 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). Diminishes EphB2-dependent cell repulsive responses by mediating the ubiquitination and degradation of EphB2/CTF2 (PubMed:28931592). Regulates cellular clock function by mediating the ubiquitin/proteasome-dependent degradation of the circadian transcriptional repressor NR1D1 (PubMed:26392558).[UniProtKB/Swiss-Prot Function]

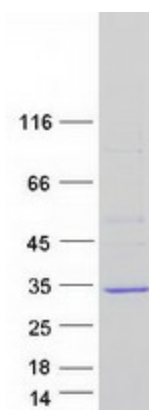
Product images:



Circular map for RC203566



Western blot validation of overexpression lysate (Cat# [LY409014]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203566 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SPSB4 protein (Cat# [TP303566]). The protein was produced from HEK293T cells transfected with SPSB4 cDNA clone (Cat# RC203566) using MegaTran 2.0 (Cat# [TT210002]).