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Product datasheet for SC120350

SPSB4 (NM_080862) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPSB4 (NM_080862) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPSB4
Synonyms:	SSB-4; SSB4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_080862, the custom clone sequence may differ by one or more nucleotides

ATGGGCCAGAAGCTCTCGGGGAGCCTCAAGTCAGTGGAGGTGCGAGAGCCGGCGCTGCGGCCGGCCAAGC
GGGAGCTGCGGGGTGCAGAGCCCGGGCGGCCGGCGCGGCTGGACCAGCTGTTGGACATGCCAGCGGCGGG
GCTGGCTGTGCAGCTGCGGCACGCGTGGAACCCCGAGGACCGCTCGCTCAACGTCTTCGTCAAGGACGAC
GACCGGCTCACCTTCCACCGGCACCCCGTGGCCCAGAGCACCGACGGCATCCGCGGCAAGGTGGGCCACG
CCCGCGGCCTGCACGCCTGGCAGATCAACTGGCCGGCTCGGCAGCGCGGCACCCACGCTGTAGTTGGTGT
GGCCACGGCCCGTGCTCCCCTGCACTCCGTGGGCTACACGGCGCTGGTAGGCAGTGACGCCGAGTCGTGG
GGCTGGGACCTGGGCCGCAGCCGCCTCTACCACGACGGCAAGAACCAGCCCGGCGTGGCCTACCCGGCCT
TTCTGGGGCCCGACGAGGCCTTTGCGCTGCCCGACTCGCTGCTCGTGGTGCTGGACATGGATGAGGGCAC
ACTCAGCTTCATCGTGGATGGCCAGTACCTGGGCGTGGCCTTCCGAGGTCTCAAGGGCAAGAAGCTGTAC
CCGGTGGTGAGTGCCGTGTGGGGCCACTGTGAAGTCACCATGCGCTACATCAACGGCCTTGACCCCGAGC
CCCTGCCACTGATGGACCTGTGCCGGAGATCCATCCGCTCGGCCCTGGGCCGCCAGCGCCTGCAGGACAT
CAGCTCCCTGCCCCTGCCTCAGTCTCTCAAAAACTATCTGCAGTACCAGTGA

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5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_080862 unedited
TTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGAGCAAAGAGACCGACTT
CCTGCGCCTCGGGTGGGCGGGGAACGCTCCTTGAGCAGGAGCTTGGGCCCCTGCCGCAGC
CCGGTAGAGGCTGTGGAGGTCTACCGTCCGGAAGCCTGGTTCCCAGCCCCGTGGCCCATT
CCTGGCTACGGGGAGTGGAGGCTCCCACGAGGTAGCGGTGGCCTGCAGCGGCCTCCTCCC
CGCAGTGAAGCATGGGCCAGAAGCTCTCGGGGAGCCTCAAGTCAGTGGAGGTGCGAGAGC
CGGCGCTGCGGCCGGCCAAGCGGGAGCTGCGGGGTGCAGAGCCCGGGCGGCCGGCGCGGC
TGGACCAGCTGTTGGACATGCCAGCGGCGGGGCTGGCTGTGCAGCTGCGGCACGCGTGGA
ACCCCGAGGACCGCTCGCTCAACGTCTTCGTCAAGGACGACGACCGGCTCACCTTCCACC
GGCACCCCGTGGCCCAGAGCACCGACGGCATCCGCGGCAAGGTGGGCCACGCCCGCGGCC
TGCACGCCTGGCAGATCAACTGGCCGGCTCGGCAGCGCGGCACCCACGCTGTAGTTGGTG
TGGCCACGGCCCGTGCTCCCCTGCACTCCGTGGGCTACACGGCGCTGGTAGGCAGTGACG
CCGAGTCGTGGGGCTGGGACCTGGGCCGCAGCCGCCTCTACCACGACGGCAAGAACCAGC
CCGGCGTGGCCTACCCGGCCTTTCTGGGGCCCGACGAGGCCTTTGCGCTGCCCGACTCGC
TGCTCGTGGTGCTGGACATGGATGAGGGCACACTCAGCTTCATCGTGGATGGCCAGTACC
TGGGCGTGGCCTTCCGAGGTCTCAAGGGCAGAGCTGT
```

Restriction Sites: NotI-NotI

ACCN: NM_080862

Insert Size: 4350 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_080862.1, NP_543138.1

RefSeq Size: 2455 bp

RefSeq ORF: 822 bp

Locus ID: 92369

UniProt ID: Q96A44

Cytogenetics: 3q23

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: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]