

## Product datasheet for MR203482

### Spsb2 (NM\_013539) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Spsb2 (NM_013539) Mouse Tagged ORF Clone                          |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Spsb2   |
| Synonyms:                 | AI461677; C9; Grcc; Grcc9; SS; SSB2                               |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR203482 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCCAGACGGCCCTGGCAAGGGGCAGCAGCAGCACCCCTACCTCGCAGGCTCTGTACTCGGACTTCT  
CTCCTCCCGAGGGCTTGGAGGAGCTCCTGTCTGCTCCCCCTCTGACCTGGTTGCCAACGGCACCACGG  
CTGGAACCCCAAGGATTGCTCCGAGAACATCGATGTCAAGGAAGGGGTCTGTGCTTTGAGCGCGCCCT  
GTGGCCAGAGCACTGATGGAGTCCGGGGAAACGGGGCTATTCGAGAGGTCTGCACGCCTGGGAGATCA  
GCTGGCCCTGGAGCAAAGGGGCACACACGCCGTGGTGGCGTGGCCACCGCCCTCGCCCGCTGCAGGC  
TGACCACTATGCGCGCTTTTGGGCAGCAACAGCGAGTCCTGGGGCTGGGATATTGGGCGGGAAAATTG  
TATCATCAGAGTAAGGGCCTCGAGGCCCCCAAGTATCCAGCTGGACCTCAGGGTGAGCAGCTAGTGGTGC  
CAGAGAGACTGCTGGTGGTTCTGGACATGGAGGAGGGACTCTTGGCTACTCTATTGGGGGCACGTACCT  
GGGACCAGCCTTCCGTGGACTGAAGGGGAGGACCCTCTATCCCTCTGTAAGTGCTGTTTGGGGCCAGTGC  
CAGGTCCGCATCCGCTACATGGGCGAAAGAGTGGAGGAACCAATCCCTTCTGCACCTGAGCCGCC  
TGTGTGTCGCCATGCTCTGGGGACACCCGGCTGGTCAAATATCCACTCTGCCTTTGCCCCCTGCCAT  
GAAGCGCTATCTGCTCTACAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203482 protein sequence  
 Red=Cloning site Green=Tags(s)

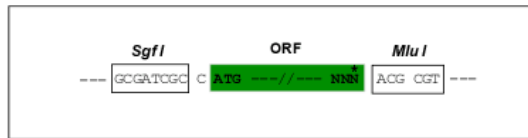
MGQTALARGSSSTPTSQALYSDFSPPEGLEELL SAPPPDLVAQRHHGWNPKDCSENIDVKEGGLCFERRP  
 VAQSTDGVRGKRGYSRGLHAW E I SWPLEQRGTHAVVGVATLAPLQADHYAALLGSNSESWGWDIGRGL  
 YHQSKGLEAPQYPAGPQGEQLVPERLLVVLDMEEGLGYSIGGTYLGP AFRGLKGR TLYPSVSAVWGQC  
 QVRIRYMGERRVEEPQSLHL SRLCVRHALGDTRLGQISTLPLPPAMKRYLLYK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_013539

**ORF Size:** 795 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:**

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\\_013539.2](#)

**RefSeq Size:** 1179 bp

**RefSeq ORF:** 795 bp

**Locus ID:** 14794

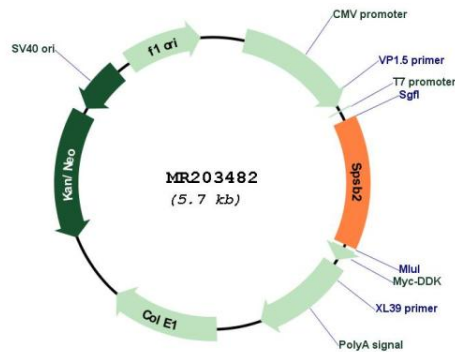
**UniProt ID:** [O88838](#)

**Cytogenetics:** 6 59.17 cM

**MW:** 28.9 kDa

**Gene Summary:** This gene encodes a member of the SSB family of proteins that contain a central SPRY (repeats in splA and ryanodine receptors) domain and a C-terminal SOCS (suppressor of cytokine signaling) box. The encoded protein is an adaptor protein in the E3 ubiquitin ligase complex that ubiquitinates inducible nitric oxide synthase and targets it for proteasomal degradation. Mice lacking the encoded protein exhibit lower blood urea nitrogen levels and mild thrombocytopenia due to reduced platelet production. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

## Product images:



Circular map for MR203482