

Product datasheet for MR203651

Spsb1 (NM_029035) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spsb1 (NM_029035) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spsb1
Synonyms:	1110014L01Rik; 4930422J18Rik; AI596360; AI854583; SSB-1; SSB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203651 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTCAGAAGGTCACAGGAGGGATCAAGACTGTGGACATGCGGGACCCACATACCGACCTCTGAAGC
AGGAACTCCAGGGGCTGGATTACTGCAAGCCCACCCGGCTGGACCTGCTGCTCGACATGCCCCCTGTGTC
CTACGATGTGCAGCTGCTCCACTCCTGGAACAATAACGACCGTTCGCTCAACGTCTTCGTAAGGAAGAT
GACAAGTTGATCTTTACCGGCATCCGGTGGCCAGAGCACGGACGCCATCAGGGGCAAAGTTGGGTACA
CACGTGGACTGCATGTATGGCAGATCACATGGCCATGAGGCAACGAGGCACGCATGCCGTGGTGGGGT
GGCCACAGCAGATGCCCTTTGCACTCCGTTGGGTACACAACCCCTGTAGGAAATAACCATGAATCCTGG
GGCTGGGACCTGGGGCGTAACCGTCTCTACCACGACGGCAAGAACCAGCCAAGTAAAACATACCCAGCCT
TTCTGGAGCCGGACGAGACATTCATTGTCCCTGACTCCTTTCTCGTGGCCCTGGACATGGATGATGGGAC
CTTAAGTTTTCATCGTGGATGGACAGTACATGGGAGTGGCTTTCGGGGACTCAAGGGTAAAAAGCTGTAT
CCTGTAGTGAGTGCCGTCTGGGGCCACTGTGAGATCCGCATGCGCTACTTGAACGGACTTGATCCTGAGC
CCCTGCCACTCATGGACCTGTGCCGGCTTCGGTGGCCCTAGCGCTGGAAAGGAGCGCCTGGGTGCCAT
CCCCGCTCTGCCGCTACCTGCCTCCCTCAAAGCCTACCTCCTCTACCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203651 protein sequence
 Red=Cloning site Green=Tags(s)

MGQKVTGGIKTVDMRDPTYRPLKQELQGLDYCKPTRLDLLDMPPVSYDVQLLSWNNDRSLNVFVKED
 DKLI FHRHPVAQSTDAIRGKVG YTRGLHWQITWAMRQRGTHAVVGVATADAPLHSVGYTTLVGNNHESW
 GWDLGRNRLYHDGKNQPSKTYPAFLPEDETFIVPDSFLVALDMDGTL SFIVDGGQYMGVAFRGLKGGKLY
 PVVSAVWGHC EIRMRYL NGLDPEPLPLMDLCRRSVRLALGKERLGAIPALPLPASLKAYLLYQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_029035

ORF Size: 822 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_029035.2](#), [NP_083311.1](#)

RefSeq Size: 3089 bp

RefSeq ORF: 822 bp

Locus ID: 74646

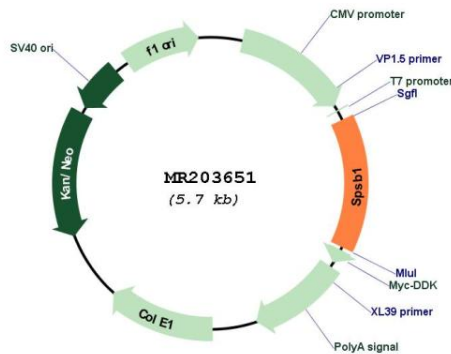
UniProt ID: [Q9D5L7](#)

Cytogenetics: 4 E2

MW: 30.8 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 (By similarity). Negatively regulates nitric oxide (NO) production and limits cellular toxicity in activated macrophages by mediating the ubiquitination and proteasomal degradation of NOS2 (By similarity). Acts as a bridge which links the NOS2 with the ECS E3 ubiquitin ligase complex components ELOC and CUL5 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203651