

Product datasheet for **RR208532**

Spsb2 (NM_001009660) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spsb2 (NM_001009660) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spsb2
Synonyms:	Grcc9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR208532 representing NM_001009660 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCAGACGGCCCTGGCAAGGGGCAGCAGCAGCACCCCTAGCTCGCACGCTCTGTACTCTGACTTAT
CTCCTCCCGAGGGCTTGGAGGAGCTCCTGTCCGACCCCTCCTGACCTAGGGGCCAACGACACCACGG
CTGGAACCCCAAGGATTGCTCCGAGAACATCGATGTCAAGGAAGGGGACTGTGCTTTGAGCGGCCCT
GTGGCCCAAGACTGATGGAGTCCGGGAAAGAGGGGCTATTCGAGAGGCCTGCATGCCTGGGAGATCA
GCTGGCCCTGGAGCAAAGGGGAACACACGCCCTGGTGGGCGTGGCCACCGCCCTCGCCCGCTGCAGGC
TGACCACTACGCGGCGCTTTTGGGCAGCAACAGCGAGTCTGGGCTGGGATATTGGGAGGGGAAAATTG
TATCATCAGAGTAAGGGCCTTGGGCCCCCAAGTACCCAGCCGGACCTCAGGGTGAGCAGCTAGTGGTGC
CAGAGAGACTGTTGGTGGTTCTGGACATGGAGGAGGAACTCTGGGCTACTCTATTGGGGGCACGTACCT
GGGACCAGCCTCCGTGGACTGAAGGGGAGGACCCTTTATCCCTCTGTAAGTGCTGTTTGGGGACAGTGC
CAGGTCCGCATCCGCTACCTGGGCGAAAGAAGAGCGGAGGAACCAATCCCTTCTGCACCTGAGCCGCC
TGTGTGTGCGCCATGCTCTGGGGACACCCGGCTGGGTCAAATATCCAGTCTGCCATTGCCCCCTGCCAT
GAAACGCTATCTACTCTACAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208532 representing NM_001009660
 Red=Cloning site Green=Tags(s)

MGQTALARGSSSTPSSHALYSDLSPPEGLEELL SAPPPDLGAQRHHGWNPKDCSENIDVKEGGLCFERRP
 VAQSTDGVRGKRGYSRGLHAW EISWPLEQRGTHAVVGVATAPLQADHYAALLGSNSESWGWDIGRGL
 YHQSKGLEAPQYPAGPQGEQLVPPERLLVVLDMEEGLGYSIGGTYLGP AFRGLKGR TLYPSVSAVWGQC
 QVRIRYLGERRAEEPQSL LHL SRLCVRHALGDTRLGQISSLPLPPAMKRYLLYK

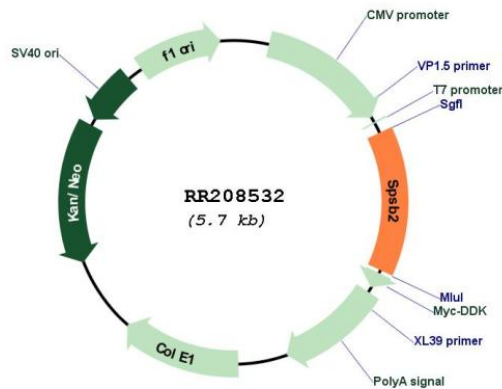
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009660
 ORF Size: 792 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.
RefSeq:	NM_001009660.1 , NP_001009660.1
RefSeq Size:	1257 bp
RefSeq ORF:	795 bp
Locus ID:	297592
UniProt ID:	Q5M877
Cytogenetics:	4q42
MW:	28.8 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 NOS2 with the ECS E3 ubiquitin ligase complex components ELOC and CUL5 (By similarity).[UniProtKB/Swiss-Prot Function]