

Product datasheet for **RN208532**

Spsb2 (NM_001009660) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spsb2 (NM_001009660) Rat Untagged Clone
Tag: Tag Free
Symbol: Spsb2
Synonyms: Grcc9
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN208532 representing NM_001009660
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCCAGACGGCCCTGGCAAGGGGCAGCAGCAGCACCCCTAGCTCGCACGCTCTGTACTCTGACTTAT
CTCCTCCCGAGGGCTTGGAGGAGCTCCTGTCCGACCCCTCCTGACCTAGGGGCCAACGACACCACGG
CTGGAACCCCAAGGATTGCTCCGAGAACATCGATGTCAAGGAAGGGGACTGTGCTTTGAGCGGGCCCT
GTGGCCAGAGCACTGATGGAGTCCGGGAAAGAGGGGCTATTCGAGAGGCCTGCATGCCTGGGAGATCA
GCTGGCCCTGGAGCAAAGGGGAACACACGCCGTGGTGGGCGTGGCCACCGCCCTCGCCCGCTGCAGGC
TGACCACTACGCGGCGCTTTTGGGCAGCAACAGCGAGTCTGGGCTGGGATATTGGGAGGGGAAAATTG
TATCATCAGAGTAAGGGCCTTGGGCCCCCAAGTACCCAGCCGGACCTCAGGGTGAGCAGCTAGTGGTGC
CAGAGAGACTGTTGGTGGTTCTGGACATGGAGGAGGAACTCTGGGCTACTCTATTGGGGGCACGTACCT
GGGACCAGCCTCCGTGGACTGAAGGGGAGGACCCTTTATCCCTCTGTAAGTGCTGTTTGGGGACAGTGC
CAGGTCCGCATCCGCTACCTGGGCGAAAGAAGAGCGGAGGAACCAACAATCCCTTCTGCACCTGAGCCGCC
TGTGTGTGCGCCATGCTCTGGGGACACCCGGCTGGGTCAAATATCCAGTCTGCCATTGCCCCCTGCCAT
GAAACGCTATCTACTCTACAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001009660
Insert Size: 795 bp



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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:	<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:	<u>NM_001009660.1</u> , <u>NP_001009660.1</u>
RefSeq Size:	1257 bp
RefSeq ORF:	795 bp
Locus ID:	297592
UniProt ID:	<u>Q5M877</u>
Cytogenetics:	4q42
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]