

Product datasheet for **MR206742**

Spock2 (NM_052994) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spock2 (NM_052994) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spock2
Synonyms:	AA407235; Gcap26; mKIAA0275
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206742 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCGTCCAGGCTCCGGGCGGTGGCTCTGCCGCTGTGCTCCTCGCGTGGTGCCTTGGCTGAAG
 GCGACGCCAAGGGGCTCAAGGAGGGCGAGACCCCGCAATTCATGGAGGACGAGCAATGGCTGTGCTC
 CATCTCGCAGTACAGCGCAAGATTAAGCACTGGAACCGCTCCGAGACGAGGTAGAAGATGATTACATC
 AAGAGCTGGGAAGACAATCAGCAAGGAGATGAAGCTCTGGATACCACCAAGGACCCTGCCAGAAGGTGA
 AGTGCAGTCGCCACAAGGTGTGTGTGCTCAAGGCTACCAGCGGCCATGTGCATCAGCCGAAGAAGTT
 GGAGCACAGGATCAAGCAGCCTTCTCTGAACTCCACGGAGGCAAGACTCCGTCTGCAAGCCCTGTCAT
 ATGGCCAGCTCGCTTCACTGTGGCTCCGACGGCCATACCTACAGCTCTGTGTGAAGCTGGAGCAGC
 AGGCATGCCTAAGCAGCAAGCAGCTGGCGGTGAGATGTGAGGGCCCTGTCCCTGTCCCAGGAGCAGTC
 TACTGCGTCTACCACCGACAGCAAGTCAAGACCTGCACAGGGCAGGACCTGGCCGACCTGGGGATAGG
 CTCGTGACTGGTTCCAGCTCCTTCGTGAGAACTCCAAGCAGAACGGCTCAGCCAACAGTCAACTAACC
 CCGCAGGGTTGGACAAGAGCCTGGGGGCCAGTTGCAAGGACTCCATCGGTTGGATGTTCTCTAAGCTGGA
 CACTAGTGGAGACCTTCTCTGGACCAGACAGAAGTGGCTGCCATCAACCTGGACAAATACGAGGCTGTC
 ATCCGCCCTTCTTCAACTCCTGTGATACCTACAAAGATGGCCGCGTCTCTACTGCTGAGTGGTCTTCT
 GTTTCTGGAGGGAGAAGCCCCCTGCCTGGCAGAGCTGGAGCGCACACAGATCCAGGAGGCGCAAGAA
 GAAGCCAGGTGTCTTCAATCCCGAGCTGTGATGAAGATGGCTACTACCGGAAGATGCAGTGTACCAGAGC
 AGAGGTGACTGCTGGTGTGTGGACCAGCTGGCCCTGGAGCTGACCGGCACACGCATGCATGGGACCCCTG
 ACTGTGATGACATCGTGGGTTTCTCCGGGACTTTGGAAGCGCGTTGGCTGGGAGGATGAGGAAGAAAA
 GGAGACAGAAGAGGCAGGGGAGGAGCCGAGGAGGAGGAGGTTGAGGCGGGTGGAGCAGATGATGGAGGC
 TACATCTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206742 protein sequence
 Red=Cloning site Green=Tags(s)

MRAPGSGRLALPLLLAVVALAEGDAKGLKEGETPGNFMEDQWLSSISQYSGKIKHWNFRDEVEDDYI
 KSWEDNQGDALDTTKDPQKVKCSRHKVCVAQGYQRAMCISRKKLEHRIKQPSLKLHGGKDSVCKPCH
 MAQLASVCGSDGHTYSSVCKLEQQAQLSSKQLAVRCEGPCPCPEQSTASTTDSKSETCTGQDLADLADR
 LRDWFQLLRENSKQNGSANSATNPAGLDKSLGASCKDSIGWMFSLDTSGLFLDQTELAALNLDKYEVC
 IRPFNFNSCDTYKDRVSTAIEWCFWREKPPCLAELERTQIQEAAKKPGVFI PSCDEDGYRKMQCDQS
 RGDWCVDQLGLELTGTRMHGTPDCDDIVGFSGDFGSGVGEDEEEKETEEAGEEAE EEEEGEAGEADDGG
 YIW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_052994

ORF Size: 1272 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_052994.2](#), [NP_443720.1](#)

RefSeq Size: 3931 bp

RefSeq ORF: 1272 bp

Locus ID: 94214

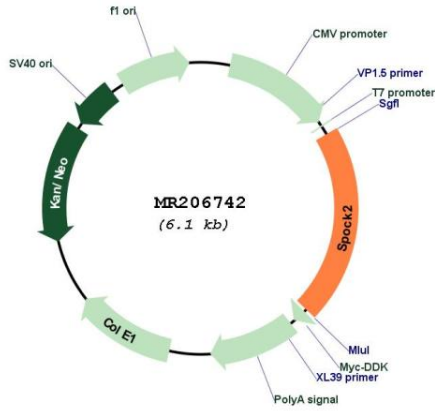
UniProt ID: [Q9ER58](#)

Cytogenetics: 10 B4

MW: 46.9 kDa

Gene Summary: May participate in diverse steps of neurogenesis. Binds calcium (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206742