

## Product datasheet for **MR229900**

### Spock3 (NM\_001252620) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Spock3 (NM_001252620) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spock3
Synonyms:	2900045C01Rik; AI428471; mKIAA4039
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR229900 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCAAGGTGTCAGCCTTATTGTGTGTGTGTCAGCGGCTTGGTGCAGCCAGACTCTTGCAGCTGCCG  
 CGGCGGTGGCTGTGGCCGGGGCGGTTCGACGCGGTAATTTCTGGACGAAAAACAATGGCTCAGCAG  
 AATCTCTCAGTATGACAAGGAAGTCGGACAGTGAACAAATCCGAGACGAAGTAGAGGATGATTATTTCC  
 CGCACTTGAATCCAGGAAAACATTTGATCAAGCTTTAGATCCTGCTAAGGACCCATGCTTAAAGACGA  
 AATGCAGCCGCCACAAAGTTTGATTACGAGGATGCTCAGACTGCAGTGTATCAGTACCCGGAGGCT  
 CACACACAGTATGAAAGAAGTAGGAGGAAGCCATAAGCAATGGAGAGTCTCCCGTCATCTACCTGCAAG  
 CCATGCCCTATCGCTATGCCAGCCAGTCTGTGGTTCTGATGGGCATTCCTACTCTTACAGTGCAAAAC  
 TAGAATATCAGGCATGTGCTTAGGAAAACAGATCTCTATCAAATGTGAAGGACGTTGCCATGTCCCTC  
 CGATAAGTCCATGAACATAGGCAGAAATGTTAAAAGAGCCTGCAGTGACCTGGAATTCAGAGAAGTGGA  
 AACAGACTGCGAGACTGGTTCAAGGCCCTTCATGAGAGTGAAGCCAGAACAAGAAGACAAAAGCATTGC  
 TGAGGCCCTGAGAGAAGCAGATTTGATACCAAGTATTTTGCCAATTTGCAAGGATCACTTGGCTGGATGTT  
 TAATAGACTTGATACAACTATGACCTGCTATTGGACCAGTCAGAGCTTGGGAGCATATACCTTGATAAG  
 AATGAGCAGTGCACCAAGGCGTCTTCAATTCTTGTGACACTTACAAGGACAGTTTGATATCTAATAATG  
 AATGGTGTACTGTTCCAGAGACAGCAAGACCCACCTTGCCACACGGAGCTCAGTAACATTCAGAAGCG  
 ACAGGGGATAAAGAAGCTCCTAGGACAGTACATTCCACTCTGTGATGAAGATGGTTACTACAAACCAACA  
 CAATGCCATGGCAGTGTAGGCGAGTCTGGTGTGTTGACAGATATGGAATGAAGTTGTTGGATCAAGAA  
 TAAATGGTGTTCAGATTGTGCTATAGACTTTGAGATATCTGGAGATTTTCGCAAGTGGAGATTTTCGTGA  
 ATGGACTGATGTAAGGTGAAGAAGATGACATTATGAATGATAAGGATGATATTGAAGATGATGATGAA  
 GATGAAGGGGATGATGATGACGATGGGGATGTCCATGATGGATATATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR229900 protein sequence  
 Red=Cloning site Green=Tags(s)

MLKVSALLCVCAAWSQTLAAAAVAVAGGRSDGGNFLDEKQWLTTISQYDKEVGQWNKFRDEVEDDYF  
 RTWNPVKPFDQALDPAKDPCLKTKSRHKVCITQDAQTALCISHRRLTHSMKEVGGSHKQWRGLPSSTCK  
 PCPIAYASPVCGSDGHSYSSQCKLEYQACVLGKQISIKCEGRPCPSDKSMNIGRNVKRACSDLEFREVA  
 NRLRDWFKALHESGSQNKTKALLRPERSRFDTSILPICKDSLWGMFNRLDTNYDLLLDQSELGSIYLDK  
 NEQCTKAFFNSCDTYKDSLISNNEWCYCFQRQQDPPCHTEL SNIQKRQGIKLLGQYIPLCEDGYYKPT  
 QCHGSVQCWCVDRYGNEVVGSRINGVADCAIDFEISGDFASGDFREWTDEGEEDDIMNDKDDIEDDE  
 DEGDDDDGDVHDGYI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001252620

**ORF Size:** 1311 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\\_001252620.1](#), [NP\\_001239549.1](#)

**RefSeq Size:** 3112 bp

**RefSeq ORF:** 1311 bp

**Locus ID:** 72902

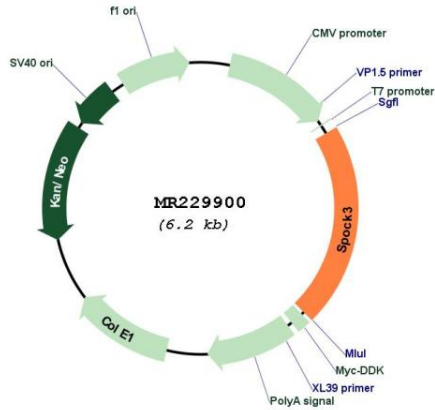
**UniProt ID:** [Q8BKV0](#)

**Cytogenetics:** 8 B3.1

**MW:** 49.1 kDa

**Gene Summary:** May participate in diverse steps of neurogenesis. Inhibits the processing of pro-matrix metalloproteinase 2 (MMP-2) by MT1-MMP and MT3-MMP. May interfere with tumor invasion (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR229900