

## Product datasheet for **MG206742**

### Spock2 (NM\_052994) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Spock2 (NM_052994) Mouse Tagged ORF Clone                                   |
| Tag:                      | TurboGFP  |
| Symbol:                   | Spock2  |
| Synonyms:                 | AA407235; Gcap26; mKIAA0275   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG206742 representing NM_052994<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGCGCTCCAGGCTCCGGGGCTGGCTCTGCCGCTGCTCCTCGCCGTGGTCGCCTTGGCTGAAG  
GCGACGCCAAGGGGCTCAAGGAGGGCGAGACCCCGCAATTTTCATGGAGGACGAGCAATGGCTGTCGTC  
CATCTCGAGTACAGCGCAAGATTAAGCACTGGAACCGCTTCCGAGACGAGGTAGAAGATGATTACATC  
AAGAGCTGGGAAGACAATCAGCAAGGAGATGAAGCTCTGGATACCACCAAGGACCCCTGCCAGAAGTGA  
AGTGCAGTCGCCACAAGGTGTGTGTTGCTCAAGGCTACCAGCGCCATGTGCATCAGCCGAAGAAGTT  
GGAGCACAGGATCAAGCAGCCTTCTGAACTCCACGGAGGCAAGACTCCGTCTGCAAGCCCTGTTCAT  
ATGGCCCAGCTCGCTCAGTCTGTGGCTCCGACGGCCATACCTACAGCTCTGTGTGAAGCTGGAGCAGC  
AGGCATGCCTAAGCAGCAAGCAGCTGGCCGTGAGATGTGAGGGCCCTGTCCCTGTCCCACGGAGCAGTC  
TACTGCGTCTACCACCGACAGCAAGTCAGAGACCTGCACAGGGCAGGACCTGGCCGACCTGGGGGATAGG  
CTCCGTGACTGGTTCCAGCTCCTTCGTGAGAACTCCAAGCAGAACGGCTCAGCCAACAGTGAACCTAAC  
CCGAGGGTTGGACAAGAGCCTGGGGCCAGTTGCAAGGACTCCATCGGTTGGATGTTCTCTAAGCTGGA  
CACTAGTGGAGACCTCTTCCCTGGACCAGACAGAAGCTGGCTGCCATCAACCTGGACAAATACGAGGCTGC  
ATCCGCCCTTCTCAACTCCTGTGATACCTACAAGATGGCCGCGTCTACTGCTGAGTGGTGTCTCT  
GTTTCTGGAGGGAGAAGCCCCCTGCCTGGCAGAGCTGGAGCGCACACAGATCCAGGAGGCCAAGAA  
GAAGCCAGGTGTCTTCATCCCGAGCTGTGATGAAGATGGCTACTACCGGAAGATGCAAGTGTGACCAGAGC  
AGAGGTGACTGCTGTTGTGTGGACCAGCTGGCCCTGGAGCTGACCGGCACACGCATGCATGGGACCCCTG  
ACTGTGATGACATCGTGGGTTTCTCCGGGGACTTTGGAAGCGGCTTGGCTGGGAGGATGAGGAAGAAAA  
GGAGACAGAAGAGGCAGGGGAGGAGGCCGAGGAGGAGGGTGGAGCGGGTGGGCAGATGATGGAGGC  
TACATCTGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206742 representing NM\_052994  
 Red=Cloning site Green=Tags(s)

MRAPGSGRLALPLLLAVVALAEGDAKGLKEGETPGNFMEDQWLSSISQYSGKIKHWNFRDEVEDDYI  
 KSWEDNQQGDEALDTTKDPCQKVKCSRHKVCVAQGYQRAMCISRKLEHRIKQPSLKLHGGKDSVCKPCH  
 MAQLASVCGSDGHTYSSVCKLEQQACLSSKQLAVRCEGPCPCPEQSTASTTDSKSETCTGQDLADLADR  
 LRDWFQLLRENSKQNGSANSATNPAGLDKSLGASCKDSIGWMFSKLDTSGLDFLDQTELAAILNDKYEVC  
 IRPFNFNSCDTYKDRVSTAEWCFWFREKPPCLAELERTQIQEAAKKPGVFIIPSCDEDGYRKMQCDQS  
 RGDWCVDQLGLELTGTRMHGTPDCDDIVGFSGDFGSGVGEDEEEKETEEAGEEAEDEEAGEADDGG  
 YIW

TRTRPLE - GFP Tag - V

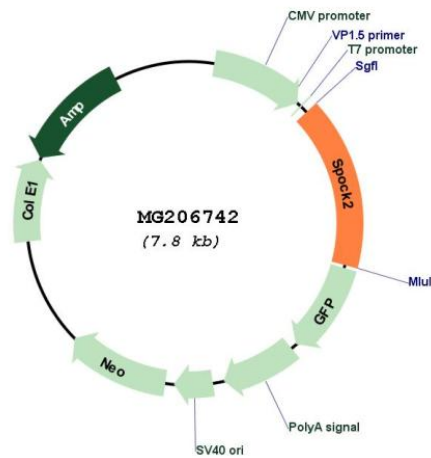
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_052994

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1269 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_052994.2</a> , <a href="#">NP_443720.1</a>   |
| <b>RefSeq Size:</b>           | 3931 bp   |
| <b>RefSeq ORF:</b>            | 1272 bp   |
| <b>Locus ID:</b>              | 94214   |
| <b>UniProt ID:</b>            | <a href="#">Q9ER58</a>  |
| <b>Cytogenetics:</b>          | 10 B4   |
| <b>Gene Summary:</b>          | May participate in diverse steps of neurogenesis. Binds calcium (By similarity).<br>[UniProtKB/Swiss-Prot Function]   |