

## Product datasheet for MR229165

### Spp1 (NM\_001204202) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Spp1 (NM_001204202) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spp1
Synonyms:	2AR; Apl-1; BNSP; Bsp; BSPI; Eta; ETA-1; OP; Opn; Opnl; Ric; Spp-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229165 representing NM_001204202 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGGCTGCAGTTCTCCTGGCTGAATTCTGAGGGACTAACTACGACCATGAGATTGGCAGTGATTTGCT  
TTTGCCTGTTGGCATTGCCTCCTCCCTCCCGGTGAAAGTGACTGATTCTGGCAGCTCAGAGGAGAAGCT  
TTACAGCCTGCACCCAGATCCTATAGCCACATGGCTGGTGCCTGACCCATCTCAGAAGCAGAATCTCCTT  
GCGCCACAGAATGCTGTGCTCTGAAGAAAAGGATGACTTTAAGCAAGAACTCTTCCAAGCAATTCCA  
ATGAAAGCCATGACCACATGGACGACGATGATGACGATGATGATGACGATGGAGACCATGCAGAGAGCGA  
GGATTCTGTGGACTCGGATGAATCTGACGAATCTCACCATTCCGGATGAGTCTGATGAGACCGTCACTGCT  
AGTACACAAGCAGACACTTTCACTCCAATCGTCCCTACAGTCGATGTCCCAACGGCCGAGGTGATAGCT  
TGGCTTATGGACTGAGGTCAAAGTCTAGGAGTTTCCAGGTTTCTGATGAACAGTATCCTGATGCCACAGA  
TGAGGACCTCACCTCTCATGAAGAGCGGTGAGTCTAAGGAGTCCCTCGATGTCATCCCTGTTGCCAG  
CTTCTGAGCATGCCCTCTGATCAGGACAACAACGGAAAGGCCAGCCATGAGTCAAGTCAAGTGGATGAAC  
CAAGTCTGGAAACACACAGACTTGAGCATTCCAAGAGAGCCAGGAGAGTGCCGATCAGTCGGATGTGAT  
CGATAGTCAAGCAAGTTCCAAGCCAGCCTGGAACATCAGAGCCACAAGTTTACAGCCACAAGGACAAG  
CTAGTCTAGACCCTAAGAGTAAGGAAGATGATAGGTATCTGAAATTCGAATTTCTCATGAATTAGAGA  
GTTTCATCTTCTGAGGTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229165 representing NM\_001204202  
 Red=Cloning site Green=Tags(s)

MRLQFSWLNSEGLTTTMR LAVICFLFGIASSLPVKVTDSGSSEEKLYSLHPDPIATWLPDPSQKQNL  
 APQNAVSSSEKDDFKQETLPSNSNESHDHMDDDDDDDDDGDHAESEDSVDSDESDESHHSDESDET  
 VTA STQADTFPIVPTVDPNGRGLSLAYGLRKSRSFQVSDEQYPDATDEDLTSHKSGESKESLDV  
 IPVAQ LLSMPDQDNNGKGSHESSQLDEPSLETHRLEHSKESQESADQSDVIDSQASSKASLEHQ  
 SHKFHSHKDK LVLDPKSKEDDRYLKFRISHELESSSSEVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

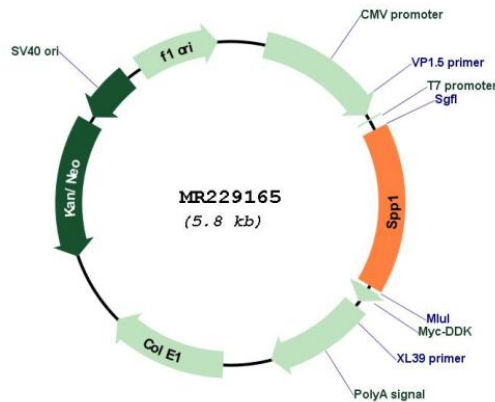
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001204202

**ORF Size:** 930 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_001204202.1</a> , <a href="#">NP_001191131.1</a>
<b>RefSeq Size:</b>	1480 bp
<b>RefSeq ORF:</b>	933 bp
<b>Locus ID:</b>	20750
<b>Cytogenetics:</b>	5 50.68 cM
<b>MW:</b>	34.8 kDa
<b>Gene Summary:</b>	Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction.[UniProtKB/Swiss-Prot Function]