

Product datasheet for **MG226579**

Spp1 (NM_009263) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spp1 (NM_009263) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spp1
Synonyms:	2AR; Apl-1; BNSP; Bsp; BSPI; Eta; ETA-1; OP; Opn; Opnl; Ric; Spp-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226579 representing NM_009263 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGATTGGCAGTGATTTGCTTTTGCCTGTTTGGCATTGCCTCCTCCCTCCCGGTGAAAGTGACTGATT
CTGGCAGCTCAGAGGAGAAGCTTTACAGCCTGCACCCAGATCCTATAGCCACATGGCTGGTGCTGACCC
ATCTCAGAAGCAGAATCTCCTTGCGCCACAGAATGCTGTGCCTCTGAAGAAAAGGATGACTTTAAGCAA
GAAACTCTTCCAAGCAATCCAATGAAAGCCATGACCACATGGACGACGATGATGACGATGATGATGACG
ATGGAGACCATGCAGAGAGCGAGGATTCTGTGGACTCGGATGAATCTGACGAATCTCACCATTCCGGATGA
GTCTGATGAGACCGTCACTGCTAGTACACAAGCAGACACTTTCACTCCAATCGTCCCTACAGTCCGATGTC
CCCAACGGCCGAGGTGATAGCTTGGCTTATGGACTGAGGTCAAAGTCTAGGAGTTTCCAGGTTTCTGATG
AACAGTATCCTGATGCCACAGATGAGGACCTCACCTCTCACATGAAGAGCGGTGAGTCTAAGGAGTCCCT
CGATGTCATCCCTGTTGCCAGCTTCTGAGCATGCCCTCTGATCAGGACAACAACGGAAAGGGCAGCCAT
GAGTCAAGTCAGCTGGATGAACCAAGTCTGAAACACACAGACTTGAGCATTCCAAGAGAGCCAGGAGA
GTGCCGATCAGTCGGATGTGATCGATAGTCAAGCAAGTTCCAAGCCAGCCTGGAACATCAGAGCCACAA
GTTTCACAGCCACAAGGACAAGCTAGTCTAGACCCTAAGAGTAAGGAAGATGATAGGTATCTGAAATTC
CGAATTTCTCATGAATTAGAGAGTTCATCTTCTGAGGTCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226579 representing NM_009263
 Red=Cloning site Green=Tags(s)

MRLAVICFCLFGIASSLPVKVTDSDGSSEEKLYSLHPDPIATWLVPDPSQKQNLLAPQNAVSSSEKDDDFKQ
 ETLPSNSNESHDMDDDDDDDDGDHAESEDSVDSDESDESHHSDESDETVTASTQADTFPIVPTVDV
 PNGRGDSLAYGLRSKRSFQVSDEQYPDATDEDLTSHMKSGESKESLDVIPVAQLLSMPSDQDNNNGKGS
 ESSQLDEPSLETHRLEHSKESQESADQSDVIDSQASSKASLEHQSHKFHSHKDKLVLDPKSKEDDRYLK
 RISHELESSSEVN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009263

ORF Size: 882 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_009263.3](#)

RefSeq Size: 1410 bp

RefSeq ORF: 885 bp

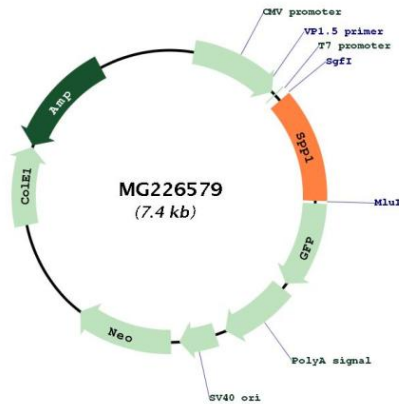
Locus ID: 20750

UniProt ID: [P10923](#)

Cytogenetics: 5 50.68 cM

Gene Summary: Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226579