

Product datasheet for **MG211731**

Spag9 (BC094670) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spag9 (BC094670) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spag9
Synonyms:	JLP, Jip4, Mapk8ip4, syd1, JSAP2, JSAP2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211731 representing BC094670 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCCTGGATGCATGCTGCTGTTTGTGTTGGCTTTGTTGGCGGGCGGTGGTCATTAATTCTGCGA
TCTTAGTATCTCTCTGTTTTGCTGCTGTGCACTTTTCTATTTCTACCGGGTGCCAGCGCTGACGCA
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TGGAGTCTGCCTCAGAAGTACAAACAGGTAGCCAATGGTCAAGGGGAAACTAAGATGAAAAATTTACCTG
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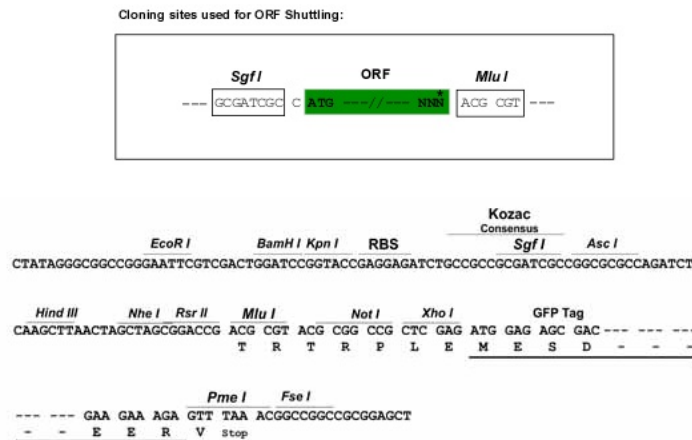
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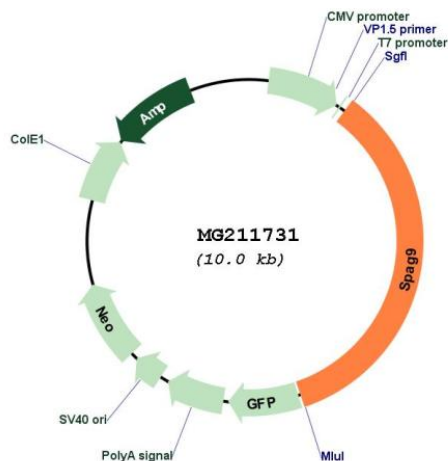
Protein Sequence: >MG211731 representing BC094670
 Red=Cloning site Green=Tags(s)

MNPGCMLLFVFGFVGGAVVINSAILVLSVLLLVHFSISTGVPAL TQNLPRILRKERPISLGIFFLPAGD
 GLLTPDTQKGGETPGSEQWKFQELSQPRSHTSLKDELSDISQGGSKATTPASTANSVSAIPDTPSKED
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 KGIENKAFDRNTESLFEELSSAGSGLIGDVDEGADLLGMGREVENLILENTQLLETKNALNVVKNDLIAK
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 WSLPQKYKQVANGQGETKMKNL PVPVYLRPLDEK DASMKLWCAVGVNLSGGKTRDGGSVVGASV FYKDIA
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 PEDLSPVFQSSNDSVYKDQISVLPNEQDLAREEAQKMSLLPTMWLGAQNGCLYVHSSVAQWRKCLHSI
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 PYCSMAHAQLCFHGHRDAVKFFVAVPGQVISPQSSSGGADLTADKAGSSAQEPSSQTP LKSM LVISGGEG
 YIDFRMGDEGGESELLGEDLPLEPSVTKAERSHLIVWQVMCGNE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
 Cloning Scheme:



Plasmid Map:


ACCN: BC094670

ORF Size: 3492 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: [BC094670.1](#)

RefSeq Size: 6844 bp

RefSeq ORF: 3494 bp

Locus ID: 70834

Cytogenetics: 11 D

Gene Summary:

The JNK-interacting protein (JIP) group of scaffold proteins selectively mediates JNK signaling by aggregating specific components of the MAPK cascade to form a functional JNK signaling module (PubMed:12391307, PubMed:15767678). Regulates lysosomal positioning by acting as an adapter protein which links PIP4P1-positive lysosomes to the dynein-dynactin complex (By similarity).[UniProtKB/Swiss-Prot Function]