

Product datasheet for MC229445

Spag9 (NM_001199205) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spag9 (NM_001199205) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spag9
Synonyms:	3110018C07Rik; 4733401I23Rik; 4831406C20Rik; AW552012; Jip4; JLP; JSAP2; JSAP2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229445 representing NM_001199205 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATCCTGGATGCATGCTGCTGTTTGTGTTGGCTTTGTTGGCGGGCGGTGGTCATTAATTCTGCGA
TCTTAGTATCTCTCTGTTTTGCTGCTGTGCACTTTTCTATTCTACCGGGTGCCAGCGCTGACGCA
GAACCTACCAAGGATACTCAGAAAAGAAGTCTATATCATTAGGGATTTCCCTCTACCTGCTGGAGAT
GGATTGCTTACACCTGACACTCAGAAAGGAGGCGAGACCCAGGATCAGAGCAATGGAAATTTCAAGAAT
TAAGTCAACCACGTTCTCATACAGCCTGAAGGATGAACCTTTCTGATATTAGTCAAGGTGGATCTAAAGC
TACCACTCCAGCTTCAACAGCAAATTCAGACGTATCAGCAATTCCTCCTGATACTCCGTCAAAGGAAGAT
AATGAAGGATTTGTAAAAGGCACAGATACATCAAATAAGTCAGAGATAAGCAAACACATAGAAGTCCAGG
TTGCCAAGAGACTAGGAATGTGTCTACAGAATCTGGTAAAAATGAAGAGAAATCAGAAGTTCAAGCAAT
CATTGAATCCACTCCTGAATTGGATATGGACAAAGACCTCAGTGGATATAAAGGTTCAAGCACTCCCACC
AAAGGCATAGAGAACAAGCTTTTGATCGCAATACAGAATCTCTTTGAAGAGCTGTCTCAGCTGGCT
CGGGCCTTATTGGAGATGTGGATGAAGGAGCGGATTTACTAGGAATGGTCTGAGGTGGAGAATCTCAT
ACTGGAGAACACACAGCTGCTGGAAACAAAAACGCTCTGAATGTAGTGAAGAATGACTTAATAGCCAAA
GTGGATGAGCTGACCTGTGAGAAGGACGTGCTGCAGGGGAGCTGGAGGCTGTGAAGCAAGCCAAGCTGA
AGCTGGAGGACAAGAACAGAGAGCTGGAGGAGGAGCTCAGGAAAGCTCGTGCAGAAGCTGAAGATGCAAG
GCAAAAAGCAAAAGACGATGATGATAGTGACATTTCCACAGCCCAGAGGAAGAGGTTTACCAGAGTAGAA
ATGGCCCGAGTTCTCATGGAGAGAAACCAGTACAAAGAGAGGCTGATGGAGCTTCAAGAAGCTGTTTCGAT
GGACGGAGATGATCCGGCCTCACGAGAGAACCAGCTATGCAAGAAAAGAAAAGGTCAAGCATCTGGCA
ATTTTTAGCCGACTTTTGTAGCTCTTCAAGTAATGCAACAAAAGAGCCTGAACCCCTGTTAACCTGAAG
TACAACGCCCCACCTCTCACGTGACTCCCTCCGTGAAGAAAAGGAGCAGCACTTTATCTCAGCTCCCTG
GGGACAAGTCCAAGGCATTTGATTTCTCAGTGAGGAAACTGAGGCTAGTTTAGCCTCCCGCAGAGAGCA
AAAGAGAGAGCAGTATCCGCAGGTGAAGGCTCACGTTTCAAGGAAGATGGCCGAGTGCAAGCTTTTCGGC
TGGAGTCTGCCTCAGAAGTACAAACAGGTAGCCAAATGGTCAAGGGGAAACTAAGATGAAAAATTTACCTG



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TGCCTGTCTATCTCAGACCACTAGACGAAAAAGATGCGTCTATGAAGCTGTGGTGTGCTGTAGGAGTCAA
 TTTATCTGGTGGCAAGACAAGAGATGGCGGGTCTGTTGTTGGAGCGAGTGTATTTTACAAGGATATTGCT
 GGTTTGGACACTGAAGGCAGTAAACAGCGGAGTGCCTCAGAGTGTAGACAAGTTGGATCAAGAAC
 TCAAGGAACAGCAGAAAGAATTTAAAAAACAAGAAGAGTTGTCCAGTCAAGTCTGGATCTGTACCAGCAC
 CCACTCAACTACAAGGTTATCATCATTGATGCTGTTCCAGCTGGCAACATCCTAGATAGTTTCACTGTT
 TGCAATTTCTCATGTTCTGTGCATTGCCAGTGTCCAGGAGCTCGGGAACAGACTACCCTGCAGGAGAAG
 AACTTTCTGAATCTGGTCAGGTAGACAAAGCGTCATTGTGTGGAAGCATGACCAGTAACAGCTCCGAGAG
 GATGGACAGCTTGTGGGAGGCATCACAGTGGTGGGTGCTCCACAGAAGGACTGACAGGAGCTGCCACT
 TCCCAAGTACCAACGGTCTTCTCCTGTGATTGAAAAGCCACCAGAAATGGAAACTGAAAATAGCGAAG
 TTGATGAAAATATTCCAACAGCAGAAGAAGCAACTGAAGCCACAGAGGGCAATGCAGGGTCCACTGAAGA
 CACTGTGGACATCTCCAGCCTGGCGTGTACACAGAGCATGTGTTTACAGATCCACTGGGAGTTCAGATC
 CCAGAAGACCTCTCCCAAGTGTTCAGTCAAGTAATGACTCAGATGTGTACAAAGATCAAATATCAGTAT
 TGCCAAATGAACAAGACCTTGCAGAGAGAAGAAGCTCAGAAAATGAGTAGTCTTTTACCAACCATGTGGCT
 TGGAGCTCAGAATGGCTGTTTGTATGTCCACTCATCTGTAGCCAGTGGAGGAAATGTCTCCATTCCATT
 AAGCTCAAAGACTCAATTCTCAGTATTGTACATGTGAAAGGAATTGTAAGTGGCCCTGGCGGATGGCA
 CCCTTGCAATCTCCACAGAGGAGTTGATGGACAATGGGATCTGTCAAACATACCTTTTACAGCTTGG
 ACGTCCATCATTTCCATACGATGCATGACTGTGGTACATGACAAAGTCTGGTGTGGCTATAGGAACAAA
 ATCTATGTGGTTCAACCAAAGGCTATGAAGATAGAGAAATCATTTGATGCACACCCAGGAAGGAGAGCC
 AAGTACGGCAGCTTGCATGGGTGGGTGATGGTGTATGGGTCTCCATTGTTTGGATTCCACGCTCCGCT
 CTATCATGCACACACATACCAACATCTCCAGGATGTGGATATTGAGCCTTATGTAAGCAAAATGTTAGGT
 ACTGAAAACCTGGGTTTCTTTTCTGAGGATAACAGCTCTTATGGTGTCTTGAATCGTTTGTGGGTGG
 GGACTGAAAATGGTGTCTTATCTCCATCCACTGACAGAAACCGTAATCCTCCACAGGACGTTTACT
 GGGGCTAAGGGCAAATAAAACCTCAGGGACTCCAGGTAACCGTCTGGAAGTGTAAATCCGTGTATATGGT
 GATGAGAACAGTGATAAAGTGACTCCAGGACATTTATACCCTACTGTTCAATGGCACATGCACAGCTTT
 GTTTCCACGGGACCGGGATGCTGTGAAATTTTGTGGCAGTCCAGGTGAGTATTAGCCACAAAAG
 TAGCAGTGGTGGGCAGATCTTACAGCTGACAAGGCAGGGTCTCTGCACAGGAGCCAGTAGCCAGACG
 CCCTTGAAGTCCATGCTTGTATCAGTGGAGGAGGGCTACATTGACTTCCGGATGGGTGATGAAGGTG
 GAGAATCTGAACCTTGGGAGAGGATCTTCCACTGGAACCTTCAAGTACCACAAAGCCGAGAGGAGTCACT
 GATAGTGTGGCAAGTGTGTGGCAATGAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001199205
- Insert Size:** 3534 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001199205.1](#), [NP_001186134.1](#)

RefSeq Size: 6940 bp

RefSeq ORF: 3534 bp

Locus ID: 70834

UniProt ID: [Q58A65](#)

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]

Transcript Variant: This variant (7) has a different 5' terminus and has multiple differences in the coding region, compared to variant 5, which results in a shorter isoform (7) with a different N-terminus, compared to isoform 5.