

Product datasheet for **RG226382**

JLP (SPAG9) (NM_001130528) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JLP (SPAG9) (NM_001130528) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPAG9
Synonyms:	CT89; HLC-6; HLC4; HLC6; JIP-4; JIP4; JLP; PHET; PIG6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226382 representing NM_001130528 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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CACCAGGTGGAGCTGGAGCTGCTGCGGGACGACAACGAGCAGCTCATCACCCAGTACGAGCGGGAGAAGG
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GATGATAGTGATATTCCACAGCCAGAGGAAACGGTTTACTAGAGTAGAAATGGCCCGTGTTCATGG
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AAGGAGTCACTTGATAGTGTGGCAAGTGTATGGCAATGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226382 representing NM_001130528
 Red=Cloning site Green=Tags(s)

MELEDGVVYQEEPGGSGAVMSERVSLAGSIYREFERLIGRYDEEVVKELMPLVVAVLENLDSVFAQDQE
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 RCMTVVHDKVWCGYRNKIYVVQPKAMKIEKSFDAHPRKESQVRQLAWVGDGVVWSIRL DSTLRLYAHTY
 QHLQDVIDIEPVYKMLGTGKLGFSFVRIT ALMVSCNRLWVGTGNGV IISIPLTETNKTS GVPGNRPGSVI
 RYVGDENSDKVTPTGTFIPYCSMAHAQLCFHGHRAVKFFVAVPGQVISPQSSSSGDTLTDGKAGPSAQEP
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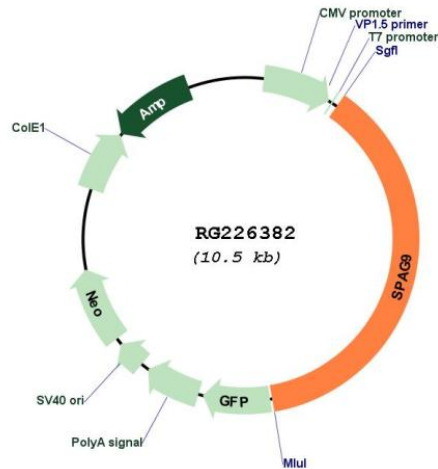
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001130528

ORF Size: 3963 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_001130528.3](#)

RefSeq Size: 8273 bp

RefSeq ORF: 3966 bp

Locus ID: 9043

UniProt ID: [O60271](#)

Cytogenetics: 17q21.33

Gene Summary:

This gene encodes a member of the cancer testis antigen gene family. The encoded protein functions as a scaffold protein that structurally organizes mitogen-activated protein kinases and mediates c-Jun-terminal kinase signaling. This protein also binds to kinesin-1 and may be involved in microtubule-based membrane transport. This protein may play a role in tumor growth and development. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2011]