

Product datasheet for MR222024

Spdya (NM_001142631) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spdya (NM_001142631) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spdya
Synonyms:	4921517J08Rik; 4930548B21Rik; GS4; MLZ-465; Spdy1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222024 representing NM_001142631 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCATAATCAGATGTATTGTGAGACACCACCTACTGTCACTATTCATGTAAAATCAGGCTCAAATA
GGTCACATCAAACCAGAAAACCTATTAGTCTGAAACGTCCTATTCTTAAAGATAGTTGGGAAGCATCTGA
AAACAATGCTCAGAATAACAAATCTAAGCGGCCAGAGGGCCTTGCTAATCATAACAGCGCCAGGAAATG
ACTGCTTTCTTTAAATTATTTGATGATGATTTAATTCAAGATTTCTGTGGATGGACTGCTGCTGAAGA
TTGACAGACAAGTATCTTTGGCTATGACCTTTGTTTATTTCAAGAGAGCTAAATTTACTATAAATGAGCA
TACCAGGATAAATTTCTTTATTGCTCTGTATCTGGCTAATACGGTTGAAGAAGATGAAGAAGAAGCCAAG
TATGAAATTTTTCCATGGGCTTTAGGGA AAAACTGGAGAAA ACTGTTCCCTAATTTCTTAAAGTTAAGGG
ACCAACTCTGGGACAGAATTGACTATAGGGCTATTGTAAGCAGGCGATGCTGTGAAGAGGTCATGGCCAT
TGCGCCAACCCATTACATCTGGCAACGAGAGCGGTCTGTGCATCACAGTGGAGCTGTTAGGAACTACAAC
AGAGATGAGGTTACCTGCCCAGGGGACCTAGTGCCACACCAGTGGATTGCTCACTGTGTGGTAAAAAAG
GAAGATACGTGAGACTGGGACTGTCTTCATCCTCATCTTCTCCAGTGACACAGGAGAGCTAATGGAAAA
AGATTCTCAGGAACTACACAGTGCATTTCTAGTGGACACGGCAGGTGACCCTCCTACATACCTATTCTCAA
GGTATGGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



[View online »](#)

Protein Sequence: >MR222024 representing NM_001142631
 Red=Cloning site Green=Tags(s)

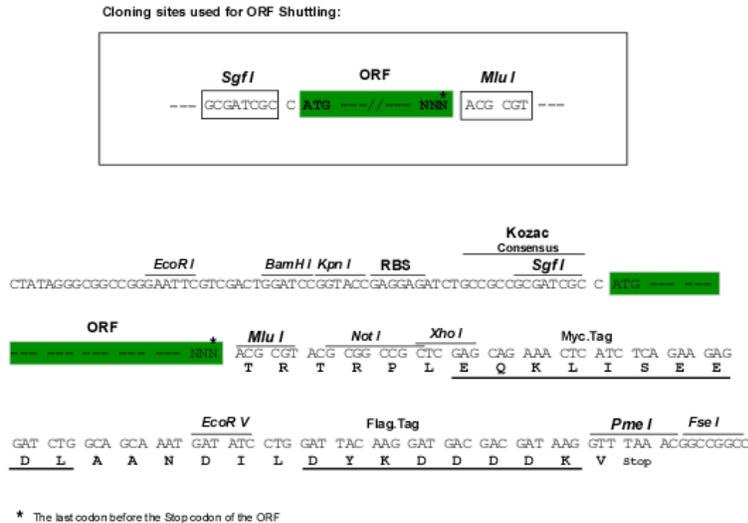
MRHNQMYCETPPTVTIHKVSGSNRSHQTRKPI SLKRPILKDSWEASENNAQNNSKRPRGPCLIIQRQEM
 TAFKFLFDDDLIQDFLWMDCCCKIADKYLLAMTFVYFKRAKFTINEHTRINFFIALYLANTVEEDEEEAK
 YEIFPWALGKNWRKLPNFKLRDQLWDRIDYRAIVSRRCCEEVMAIAPTHYIWQRERSVHHSGAVRNYN
 RDEVHLPRGPSATPVDCSLCGKKGRYVRLGLSSSSSSSDTGELMEKDSQELHSAF SVDTAGDPPTHYSQ
 GMA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9043_h11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001142631

ORF Size: 849 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_001142631.1](#), [NP_001136103.1](#)

RefSeq Size: 1247 bp

RefSeq ORF: 852 bp

Locus ID: 70891

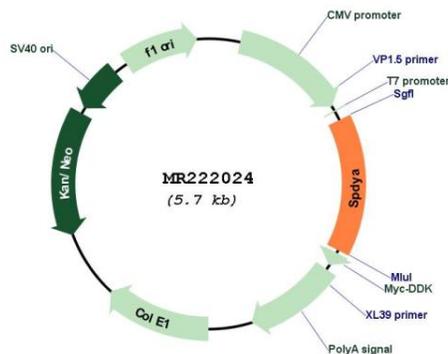
UniProt ID: [Q5IBH7](#)

Cytogenetics: 17 E1.3

MW: 33.3 kDa

Gene Summary: Regulates the G1/S phase transition of the cell cycle by binding and activating CDK1 and CDK2 (PubMed:15611625). Contributes to CDK2 activation without promoting CDK2 phosphorylation, by inducing a conformation change of the CDK2 T-loop that obstructs the substrate-binding cleft prior to kinase activation. Interferes with CDKN1B-mediated inhibition of CDK2. Mediates cell survival during the DNA damage process through activation of CDK2 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222024