

Product datasheet for **MG226517**

Spdye4a (NM_029048) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Spdye4a
Synonyms:	4930445A17Rik; 4930451F05Rik; RINGO E4A; Spdy2; Spdyb; Spdye4; Spy/Ringo B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG226517 representing NM_029048
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGAAGGGACGCCAGGCGTGGATTACGCCAGAGTCCAGGAGGAGGGCGGGAGAGATCAGAGTCTGG
GATTTGTGGAAGGGAGAATACAGTTGGGAGAATCGTGACTGCTGGCCAACTGTCATTGTGTCTGAGGA
ACAGAGCCCTCAGCCTGGCATCACCAGGCCCTCACCTGGGGTGGTGGTAGAGGGGAGAGCTCAGGACTG
GCAGAACCAAGGGTGAAGCCACTCCCCAGCCTCCATCCAGCATCCAAAAGAGGAAGAGGGACGAGTCAT
TAGATTCTGAGGATGACCTGGCAGAGCTATTTGAACCTGATCCCCAGCCAGTGTGGTCAAGTGGAGATGCT
GTGCGGACTTAGGATGAGGCTGAAGAGGCGACGTGTGTCTACAGTGAAGGCTGAACACCACAAGGTCTTC
ACCAAGCTGCTCGAGGATCCTGTGGTAAAAAATTCCTGACCTGGGACAAGATGCTGAGGGTGTGAGACA
AGTACCTCCTGTCTATGGTCATAGCTTATTTAGCCGCGCTGGCTCTTCTCCTGGCAGTACAGGCCCAT
CCAATTCTTCTGGCTCTACCTGGCCAATGACATGGAGGAGGACAACCAAGGCCCTAAGCAAGACATT
TTTTACTTCTCTATGGGAAGAGCTATGCCAGCGCCCATGTTCCAAAACTGCGCTTTGAGTTTCATT
GGTCCATGGGCTGGAAGATCTGGGTGTCCCGGAGGAGTGTGAAGAGATCCAGGCTTACAATCCAGACCT
TTGGGTGTGGGCACGAGATCGCACCAACCTGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG226517 representing NM_029048
 Red=Cloning site Green=Tags(s)

MGEETPGVDSARVQEEGGRDQSLGFVEGRIQVGRIVTAGQLSLCSEEQSPQPGITRPSGIVVDGESSGL
 AEPRVEATPQPPSSIQKRKRDESLDSEDDLAELFEPDPQPVWVEMLCGLRMRLKRRRVSTVRPEHHKVF
 TKLLEDPVVKKFLTWDKMLRVSDKYL SMVIA YFSRAGLFSWQYRPIHFFLAL YLANDMEEDNQAPKQDI
 FYFLYGKSYAQRPMFHKLRFQFIRSMGWKIWVSREECEEIQAYNPDLWVWARDRTNLT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029048

ORF Size: 804 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_029048.3](#), [NP_083324.3](#)

RefSeq Size: 1819 bp

RefSeq ORF: 807 bp

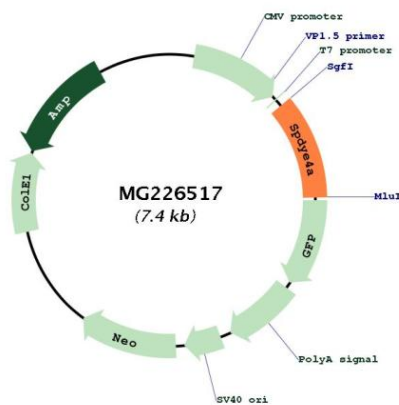
Locus ID: 74673

UniProt ID: [Q5IBH6](#)

Cytogenetics: 5 G2

Gene Summary: Promotes progression through the cell cycle via binding and activation of CDK1.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226517