

Product datasheet for MC211112

Spdya (NM_001142631) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spdya (NM_001142631) Mouse Untagged Clone
Tag: Tag Free
Symbol: Spdya
Synonyms: 4921517J08Rik; 4930548B21Rik; GS4; MLZ-465; Spdy1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC211112 representing NM_001142631
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGGCATAATCAGATGTATTGTGAGACACCACCTACTGTCACTATTCATGTAAAATCAGGCTCAAATA
GGTCACATCAAACCAGAAAACCTATTAGTCTGAAACGTCCTATTCTTAAAGATAGTTGGGAAGCATCTGA
AAACAATGCTCAGAATAACAAATCTAAGCGGCCAGAGGGCCTTGCTAATCATAACAGCGCCAGGAAATG
ACTGCTTTCTTTAAATTATTTGATGATGATTTAATTCAAGATTTCTTGTGGATGGACTGCTGCTGCAAGA
TTGCAGACAAGTATCTTTTGGCTATGACCTTTGTTTATTTCAAGAGAGCTAAATTTACTATAAATGAGCA
TACCAGGATAAATTTCTTTATTGCTCTGTATCTGGCTAATACGGTTGAAGAAGATGAAGAAGAAGCCAAG
TATGAAATTTTCCATGGGCTTTAGGGA AAAACTGGAGAAAACCTGTTCCCTAATTTCTTAAAGTTAAGGG
ACCAACTCTGGGACAGAATTGACTATAGGGCTATTGTAAGCAGGCGATGCTGTGAAGAGGTCATGGCCAT
TGCGCCAACCCATTACATCTGGCAACGAGAGCGGTCTGTGCATCACAGTGGAGCTGTTAGGAACTACAAC
AGAGATGAGGTTACCTGCCAGGGACCTAGTGCCACACCAGTGGATTGCTCACTGTGTGGTAAAAAAG
GAAGATACGTGAGACTGGGACTGTCTTCATCCTCATCTTCTCCAGTGACACAGGAGACTAATGGAAAA
AGATTCTCAGGAACTACACAGTGCATTCTCAGTGGACACGGCAGGTGACCCTCCTACATACCTATTCTCAA
GGTATGGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001142631
Insert Size: 852 bp



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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).
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:	<ol style="list-style-type: none">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:	<u>NM_001142631.1</u> , <u>NP_001136103.1</u>
RefSeq Size:	1247 bp
RefSeq ORF:	852 bp
Locus ID:	70891
UniProt ID:	<u>Q5IBH7</u>
Cytogenetics:	17 E1.3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses a different splice site in the 3' coding region, compared to variant 1. The resulting protein (isoform 2) has a shorter and distinct C-terminus when it is compared to isoform 1.</p>