OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC226653

Spin1 (NM_001283028) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Spin1
Synonyms:	Spin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226653 representing NM_001283028 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAAGACCCCATTCGGGAAGACACCTGGCCAACGGTCCAGAGCTGATGCAGGCCATGCTGGAGTATCTG CAAACATGATGAAGAAGAGGACATCTCACAAAAAACATCGGACCAGTGTGGGACCAAGCAAGCCTGTGTC CCAACCCCGGCGGAACATCGTAGGCTGCAGGATCCAGCATGGATGGAGAGAGGGCAATGGCCCTGTTACC CAGTGGAAGGGGACTGTCCTGGACCAGGTGCCTGTGAATCCTTCCCTGTATCTTATAAAGTACGATGGAT TTGACTGTGTTTATGGACTAGAACTTAATAAGGATGAAAGAGTTTCTGCACTGGAAGTCCTCCCTGATAG AGTTGCAACATCTCGGATCAGCGATGCACACTTAGCGGACACAATGATCGGCAAAGCAGTGGAGCACATG TTTGAGACAGAGGACGGCTCTAAAGATGAGTGGAGGGGGATGGTCTTGGCACGGGCGCCTGTCATGAACA CATGGTTTTACATCACCTATGAGAAAGACCCTGTCTTGTACATGTACCAGCTCCTCGATGACTACAAAGA AGGCGACCTCCGCATCATGCCTGATTCCAATGATTCGCCTCCAGCAGAAAGGGAGCCAGGAGAAGTTGTG GACAGCCTGGTAGGCAAGCAAGTGGAATATGCCAAAGAAGACGGCTCGAAAAGGACTGGCATGGTCATCC ACCAAGTAGAGGCCAAGCCCTCTGTCTATTTCATCAAGTTTGATGACGATTTCCATATTTACGTCTACGA TTTGGTGAAAACATCCTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001283028
Insert Size:	789 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).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001283028.1, NP_001269957.1
RefSeq Size:	4530 bp
RefSeq ORF:	789 bp
Locus ID:	20729
UniProt ID:	Q61142
Cytogenetics:	13 26.04 cM

Gene Summary:

Chromatin reader that specifically recognizes and binds histone H3 both trimethylated at 'Lys-4' and asymmetrically dimethylated at 'Arg-8' (H3K4me3 and H3R8me2a) and acts as an activator of Wnt signaling pathway downstream of PRMT2. In case of cancer, promotes cell cancer proliferation via activation of the Wnt signaling pathway (By similarity). Overexpression induces metaphase arrest and chromosomal instability (PubMed:18543248). Localizes to active rDNA loci and promotes the expression of rRNA genes. May play a role in cell-cycle regulation during the transition from gamete to embryo. Involved in oocyte meiotic resumption, a process that takes place before ovulation to resume meiosis of oocytes blocked in prophase I: may act by regulating maternal transcripts to control meiotic resumption (PubMed:23894536).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 2. Variants 2, 3, and 4 encode the same isoform (2).