

Product datasheet for **MG203454**

Spin1 (BC016517) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spin1 (BC016517) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spin1
Synonyms:	Spin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203454 representing BC016517 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGACCCCATTCGGGAAGACACCTGGCCAACGGTCCAGAGCTGATGCAGGCCATGCTGGAGTATCTG
CAAACATGATGAAGAAGAGGACATCTCACAAAAACATCGGACCAGTGTGGACCAAGCAAGCCTGTGTC
CCAACCCCGCGGAACATCGTAGGCTGCAGGATCCAGCATGGATGGAGAGAGGGCAATGGCCCTGTTACC
CAGTGAAGGGGACTGTCTGGACCAGGTGCCTGTGAATCCTCCCTGTATCTTATAAAGTACGATGGAT
TTGACTGTGTTTATGGACTAGAACTTAATAAGGATGAAAGAGTTTCTGCACTGGAAGTCTCCCTGATAG
AGTTGCAACATCTCGGATCAGCGATGCACACTTAGCGGACACAATGATCGCAAAGCAGTGGAGCACATG
TTTGAGACAGAGGACGGCTCTAAAGATGAGTGGAGGGGATGGTCTTGGCACGGGCGCCTGTCATGAACA
CATGGTTTTACATCACCTATGAGAAAGACCCTGTCTTGTACATGTACCAGCTCCTCGATGACTACAAAGA
AGGCGACCTCCGCATCATGCCTGATTCCAATGATTCGCCCTCCAGCAGAAAGGGAGCCAGGAGAAGTTGTG
GACAGCCTGGTAGGCAAGCAAGTGAATATGCCAAGAAGACGGCTCGAAAAGGACTGGCATGGTCATCC
ACCAAGTAGAGGCCAAGCCCTCTGTCTATTTTCATCAAGTTTGATGACGATTTCCATATTTACGTCTACGA
TTTGTTGAAAACATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203454 representing BC016517
 Red=Cloning site Green=Tags(s)

MKTPFGKTPGQRSRADAGHAGVSANMMKKRTSHKKHRTSVGSPKPVSQPRRNIVGCRIQHWREGNGPVT
 QWKGTVLDQVPVNPSTLYLIKDYDFDCVYGLELNKDERVSALEVL PDRVATSRISDAHLADTMIGKAVEHM
 FETEDGSKDEWRGMVLARAPVMNTWFYITYEKDPVLYMYQLDDYKEGDLRIMPDSNDSPPAEREPGEVV
 DSLVGKQVEYAKEDGSKRTGMVIHQVEAKPSVYF IKFDDDFHIYVYDLVKTS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC016517

ORF Size: 788 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: [BC016517](#), [AAH16517](#)

RefSeq Size: 1105 bp

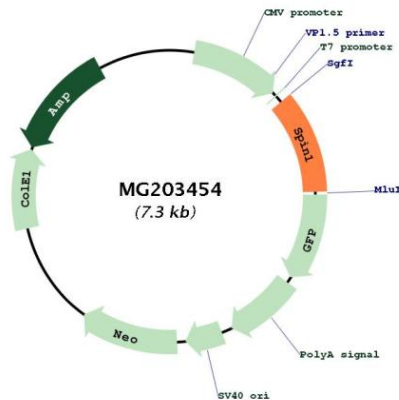
RefSeq ORF: 788 bp

Locus ID: 20729

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]

Product images:



Circular map for MG203454