

## Product datasheet for **SC108548**

### spindlin 1 (SPIN1) (NM\_006717) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	spindlin 1 (SPIN1) (NM_006717) Human Untagged Clone
Tag:	Tag Free
Symbol:	spindlin 1
Synonyms:	SPIN; TDRD24
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108548 sequence for NM_006717 edited (data generated by NextGen Sequencing)

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ATGAAGACCCCATTCGGAAGACACCTGGCCAGCGGTCCAGAGCTGATGCAGGCCATGCT
GGAGTATCTGCCAACATGATGAAGAAGAGGACATCCCACAAAAACATCGGAGCAGTGTC
GGTCCGAGCAAACCTGTTTCCCAGCCCCGGCGGAACATCGTAGGCTGCAGGATTCAGCAT
GGGTGGAAGAGGGGAATGGCCCTGTTACCCAGTGGAAAGGAACCGTTCTGGACCAGGTG
CCTGTAAATCCTTCTTTGTATCTTATAAAATACGATGGATTTGACTGTGTTTATGGACTA
GAACTTAATAAAGATGAAAGAGTTTCTGCGCTTGAAGTCCTCCCTGATAGAGTTGCGACA
TCTCGAATCAGCGATGCACACTGGCAGACACAATGATTGGCAAAGCAGTGAACATATG
TTTGAGACAGAGGATGGTTCTAAAGATGAGTGGAGGGGAATGGTCTTAGCACGTGCACCT
GTCATGAACACATGGTTTTACATTACCTATGAGAAAGACCCTGTCTTGTACATGTACCAA
CTCTTAGATGATTACAAAGAAGGCGACCTTCGCATTATGCCTGATTCCAATGATTACCT
CCAGCAGAAAGGGAACCGAGGAGAGTTGTGGACAGCCTGGTAGGCAAACAAGTGGAAATAT
GCCAAAGAAGATGGCTCGAAAAGGACTGGCATGGTCATTCATCAAGTAGAAGCCAAGCCC
TCCGTCTATTTTCATCAAGTTTGATGATGATTTCCATATTTATGTCTACGATTTGGTGAA
ACATCCTAG
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Clone variation with respect to NM\_006717.2



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_006717 unedited GAGCCTCGTGCCGAATTCGGCAGCAGGATTTTTGCTGAACTCGTAAAAGAGACACTTGGATGGTGGATTAACCCAGAACACTAACATTCTGTGAAAAGTTTCAAATTGGAGAATATTGAATTTTCACCTAGTCCAGCAGCTCCGCTGCTCACTTAAATACAGATGAATGAAGACCCATTCCGAAAGACACCTGGCCAGCGGTCCAGAGCTGATGCAGGCCATGCTGGAGTATCTGCCAATGATGAAAGAAGAGGACATCCACAAAAAACATCGGAGCAGTGTGGTCCGAGCAAACCTGTTTCCAGCCCCGGCGGAACATCGTAGGCTGCAGGATTCAGCATGGGTGGAAAGAGGGGAATGGCCCTGTTACCCAGTGGAAAGGAACCGTTCTGGACCAGGTGCCTGTAAATCCTTCTTTGTATCTTATAAAATACGATGGATTTGACTGTGTTTATGGACTAGAACTTAATAAAGATGAAAGAGTTTCTGCGCTTGAAGTCTCCCTGATAGAGTTGCGACATCTCGAATCAGCGATGCACACTTGGCAGACACAATGATTGGCAAAGCAGTGGAAACATATGTTTGAGACAGANGATGGTTCTAAAGATGAGTGGAGGGGAATGGTCTTANCACGTGCACCTGTCATGAACACATGTTTTACATTACCTATGANAAAGACCCTGTCTTGTACATGTACCCAACCTTANATGATTACAAAGAAGGCGANCTTCGCATTATGCCTGATTCCATGGATTCACCTNCAGCAGAAAGGGAACCAGGAAAAGTTG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006717
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006717.1</a> , <a href="#">NP_006708.1</a>
<b>RefSeq Size:</b>	1506 bp
<b>RefSeq ORF:</b>	744 bp
<b>Locus ID:</b>	10927
<b>UniProt ID:</b>	<a href="#">Q9Y657</a>
<b>Cytogenetics:</b>	9q22.1
<b>Domains:</b>	Spin-Ssty

**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 (PubMed:24589551). Overexpression induces metaphase arrest and chromosomal instability. Localizes to active rDNA loci and promotes the expression of rRNA genes (PubMed:21960006). 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.[UniProtKB/Swiss-Prot Function]