

Product datasheet for **MC203353**

Spire2 (NM_172287) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spire2 (NM_172287) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spire2
Synonyms:	BC026502; Spir-2; Spir2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC049152
 CCCCCTGTTATGGAGACCCGCCGCGCGGGCGGCGGATGATGGGCGGCCATGGCCCGGGCGGGCGGC
 GGCGGCGCAGCAGCTCCCGAACGCGCGGGGGCGCGGCGCGGCCGAGCCGTGGGAGCTGTCCCTGGAGG
 AAGTGCTGAAGGTGTACGAGCAGCCATCAACGAGGAGCAGGCCCTGGGCGGTGTGCTTCCAGGGCTGCC
 CGGGCTGCGGGGCGAGCCGGGCGGCGTGCGGCGCATCCGGGACACGGCAGACATCCTCTGCGTAGGGAC
 GGTTCCGGTTGGCGCGGGCTGGAGCCGAGCCTACAACCATGGTGTACCACCAGCCAGCTCAGAAGCCC
 AGATGGTGCAGTCACTGGGCTTTGCCATTTACCGTGCCTGGACTGGGGGTTAGATGAGAACGAGGAGAG
 AGAGCTCAGCCCGCAGCTGGAAAGGCTCATCGACCTCATGGCCAACAGCGACTGCGAAGACAGCAGCTGC
 GGGCAGCGGATGAGGGCTACGTGGGTCCAGAAGAGGAGGAGGAGGCTGAGGGCGGCCCCGAGCTGTGC
 GCACCTTTGCCAGGCTATGCGGCTGTGTGCTTTGCGCCTGACCGACCCACGCGCGCAGGCCACTA
 CCAGGCAGTGTGCCGAGCTCTTTGTGGAGACTGGAGCTTCTGCTTCTGCGCCGGGTGAGGGAG
 GCCAAAGAGATGTGAAGAACTGGGGAGGAGGCCACGGGAGAAGCCACTGGCCGAGCTCGACCACC
 TGGGACACACAGACTGGGCCCGGCTGTGGTCCAGCTCATGCGGGAGCTCCGTACGGGGTAAAGCTGAA
 GAAGGTGCAGGAGAAGGAGTTCAACCCACTGCCACCGAGTTCAGCTCACCCCTTCGAGATGCTGATG
 CAGGATATCCGTGCCAGGAATAAAGTGCAGCAAGGTATGGTCGATGGGGACATCCCTCCAGGGTGA
 AGAAGGACGCACATGAACCTATCCTGGACTTCATTGCTTCTCGGCTCCACTGAAGCAGGTCTCAGAGAG
 ACAACTTCGCCCTGTACCACAGAAGCAAAGAACTGCACGAGAAGATCCTGGAGAAATCAAGCAGGAG
 CGGAGGCTTCGTCCAGTGGGGCCAGCACTTGGGAGGCCGTGGGTTTGGTTCCCTGCCCTGCATCCTCA
 ATGCTGCTCTGGGGACATCAAGTCCACTTCTGCATCAACCTGTCTGTACCCGATACTGGGAGCGGGAG
 TCAGCGCCACGGCCCGGGTCTGTCAAAGCCCCACCTTGCAGAGATGGAAGAAATGAACACGTCT
 GAGGAAGAAGAGTCCCCATGTGGGAGGTGGCACTGAAGCGGGACCGCTTTTTTCGGAACACGACCTGG
 CCCAGCTTCGGAGCGAGATGGCATCTGGCTTTCAGTACCGCTCAGCCCCAGGAGGGACGGAGCCACC
 TCGGGCCAGAGCAGGTAGCATGCATCCTGGAGGCCAGCAGCCGAGACCAGGTTTCTGTCTGTGAGC
 GGCCAGTCCCAGCCTCTCCCAGCTCTGCCTTGCAGTAGCTTGCAGTCAAGGATGGACCTGAGGCGG
 CTTACCAGATACCAGACACCTGTGGTGGAGTTCAGCCACCCTGTGGAGCCTGGCTCTGACTGTGGA
 AGAGGTGGTGGACGTGCGCAGGGTGTGGTGAAGGCGGAGATGGAGAGGTTTCTGCAGGACAAGGAGCTC
 TTCAGCAGCCTGAAGAGGGGGAAGATTTGCTGTTGCTGCCGAGCCAAGTTTCCCCTGTTTTCTGGCCAC
 CCACCTGTCTTCTGCAAGAGAGCTGTGTGCACTTCTGTAGCGTAAAGATGAAGATGCCTTCAAAGAA
 GTATGGACACATCCCTGTCTACACACTTGGCTTTGAGAGTCTTTCAGAGGGTGCCAACTACCAAAGCCAG
 CCAACTGAGGAGAGATGCCTTCCAATCCCTGCAGGGACCAAAGTGGCGGAGCGTGGAGGAGGAGTTCC
 CCCACATCTATGCCACGGCTGTGTCTAAAGGATGTCTGCAGTACTGCACCAGCTTTGTGGCTGATGT
 CGTGTGCTCCAGCGCAAGAGCGTGGATGTCTCAATGCCACTCCACGACGAAGCCGTACAGCCAGTCC
 CTCTATATCCCCAACACCAGGACTCTCAACTTCCAATGACTGTTGTGATGGCCTCCCCACACCCATCCT
 GGAACACAGCTGCCATCAGCCCCCACCTTGCAGTGTACATATATACATATATAGATACATTTATAA
 TATATATATGGCCTATATTTATAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_172287

Insert Size: 2157 bp

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:

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: [BC049152](#), [AAH49152](#)

RefSeq Size: 2399 bp

RefSeq ORF: 2157 bp

Locus ID: 234857

UniProt ID: [Q8K1S6](#)

Cytogenetics: 8 E1

Gene Summary: Acts as an actin nucleation factor, remains associated with the slow-growing pointed end of the new filament (PubMed:21620703, PubMed:21983562). Involved in intracellular vesicle transport along actin fibers, providing a novel link between actin cytoskeleton dynamics and intracellular transport (PubMed:21983562). Required for asymmetric spindle positioning and asymmetric cell division during oocyte meiosis (PubMed:21620703). Required for normal formation of the cleavage furrow and for polar body extrusion during female germ cell meiosis (PubMed:21620703). Also acts in the nucleus: together with SPIRE1 and SPIRE2, promotes assembly of nuclear actin filaments in response to DNA damage in order to facilitate movement of chromatin and repair factors after DNA damage (By similarity). [UniProtKB/Swiss-Prot Function]