

## Product datasheet for **MR217344**

### Spire1 (NM\_176832) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Spire1 (NM_176832) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spire1
Synonyms:	6030430B19Rik; AI415299; AU022898; AW550622; Spir-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR217344 representing NM\_176832  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGTGCATACATTTCTGACAAAAATTAAGAGTGCAAAGGAGAACCTTAAGAAGATTCAAGAAATGG  
 AAAAGGGTGATGAATCTAGCACAGATCTGGAGGACCTGAAAAATGCAGACTGGGCCCGGTTCTGGGTACA  
 AGTGATGAGGGATTTGCGAAATGGGGTAAACTTAAGAAAAGTCCAGCAGCGGCAGTACAACCTCTGCC  
 ATTGAGTACCAACTGACCCCTTATGAGATGCTCATGGACGACATTCGGTGCAAAAGATACACCTTGAGAA  
 AAGTAATGGTAAATGGTGACGTCCCCCTCGGTTGAAAAAGAGTGCTCATGAGGTCATCCTTGACTTTAT  
 CAGATCAAGACCCCTTTAAATCCAGTTTCAGCCAGAAAAGTAAACCAACCCACCACGGCCACGGAGC  
 CTCATGAAAGAATATTAGAAGAAATTAAGCAGAAAGAAAGCTTCGACCTGTGCACCAGAAGAAATTA  
 GACGGAGCAGACTAGATGCTACTACGCCAGAATCTCAAAGAATGTTGGAGAATCATCTATGGTGAATGG  
 AGGCTTAACATCTCAAACAAAAGAAAATGGGCTGAGCGCTGCCAGCAGGGGTCTGCGCAGAGGAAGAGG  
 CTCTCAAAGCCCAACCTGGCTGAACTGGACAGCTCTGACTCTGAGGAGGAAAAAAGTCTGCACAAGT  
 CAACCAGCAGCAGAGTGCCTCTCCCTCCCTCTATGAGGATCCAGTACTGGAGGCCATGTCTCCAGGAA  
 GAAGCCTCAAAATTTCTGCCCATCTCATCAACACCCAGCCAGAGAGAAGGCAGCCACCGCAGAGGCGC  
 CACTCCATTGAGAAGGAAACACCTACGAACGTGAGGCAGTTTCTGCCACCATCCAGGCAGAGCTCACGGT  
 CTCTTGAGGAATTCTGCTACCCAGTGGAGTGCCTCGCTCTCACTGTGGAGGAAGTGATGCACATCCGTCA  
 GGTCTTGGTGAAGCAGAGCTGAAAAAGTACCAACAGTATAAGGATGTCTACACTGCCCTGAAAAAGGA  
 AAGCTCTGCTTCTGTTGCCGAACCCGGAGGTTTTCCTTCTCACCTGGTCTTACACTGTCACTTCTGTA  
 AGAGGCCCGTGTGCTCACAGTGTGCAAAAAGATGCGGCTGCCTTCCAAGCCATACTCTACTCTACCTAT  
 CTCTCTTTGGGACCTTCTGCCTTGCAAAAGGGGAAAGCTGTTGAGGTCAGAAAAACCTCCACTAGT  
 CACCATCGGCCTCTTCAAGTATTGCCAGTCTCCACAAAATCCAGGTCTGTGGACAAGTCCGATGAGG  
 AGCTCCAGTTTCCAAAGAGCTCATGGAGGACTGGAGCAGATGGAGGTGTGTGGACTGCAAAAAGTT  
 CATCTCCGAGATCATCAGCTCAAGCCGGCAGCCTGGTGTGCTAACAAAAGGCCAGGTTGAAAAGG  
 AAGACACAGTCTTCTACATGCTCTCGGCGGCCCTCGGAGTACTGCCCTTCAAGCGACTATCAACG  
 AGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR217344 representing NM\_176832  
 Red=Cloning site Green=Tags(s)

MELHTFLTKIKSAKENLKKIQEMEKGDESSTDLEDLKNADWARFVWQVMDLRNGVKLKKVQQRQYNPLP  
 IEYQLTPYEMLDDIRCKRYTLRKVMVNGDVPPRLKKSAAHEVILDFIRSRPLNPVSARKLKPTPPRPRS  
 LHERILEEIKAEKLRPVSPPEEIRRSLDVTTPESPKNVGESSMVNGLTSQTKENGLSAAQQGSARQRK  
 LLKAPTLAELDSSDSEEEKSLHKSTSSSASPPLYEDPVLEAMCSRKPPKFLPISSTPQPERRQPPRR  
 HSIEKETPTNVRQFLPPSRQSSRSLEEFYCPVECLALTVVEVMHIRQVLVKAELEKYQYKDVYTKLKG  
 KLCCFCCRTRRFSTFTWSYTCQFCKRPVCSQCCKMRLPSKPYSTLPIFSLGPSALQRGSCSRSEKPS  
 HHRPLRSIARFSTKRSVDKSDEELQFPKELMEDWSTMEVCVDCKKFISEIISRRSLVLANKRARLKR  
 KTQSFYMSSAGPSEYCPSEPTINEI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

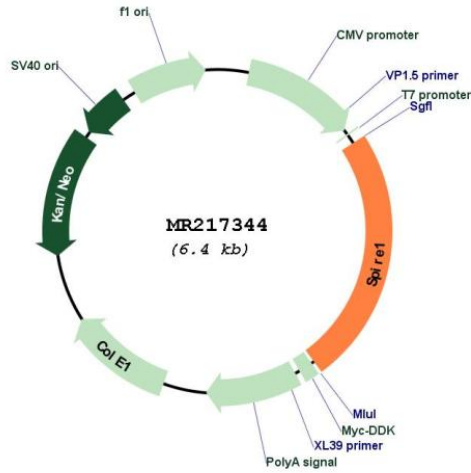
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_176832
ORF Size:	1545 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. <a href="#">More info</a>
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:	<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>
RefSeq:	<a href="#">NM_176832.2</a> , <a href="#">NP_789802.1</a>
RefSeq Size:	4761 bp
RefSeq ORF:	1548 bp
Locus ID:	68166
Cytogenetics:	18 E1
MW:	59.8 kDa