

Product datasheet for **RR202970**

Spire1 (NM_001107381) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spire1 (NM_001107381) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spire1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR202970 representing NM_001107381
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCAGCCCTCAAGCCCGGGCGGCGAGGGGCCGAGCTCGGCGCGACAGGGACCCGCGCGACGCGC
 TGAGCTTGGAAGAGATCCTGCGGCTCTACAACCAGCCCATCAACGAGGAGCAGGCGTGGCCGTGTGCTT
 CCAAGTGTGCGGCTCCCTGCGCGCCGCCCGCCGCGCCAGCCCCACCGCCGCGTGCCTCGGCGCGCAG
 ATCCGCGTTATCGAATCCCTGGGAATTATTATTTATAAAGCACTGGACTATGGCTTGAAGGAAAATGAAG
 AGAGGGAGCTGAGCCCTCTCGAGCAGCTCATCGACCAATGGCCAATACCTCGGAGGCGGATGGAAG
 CAATGATGAAGGGTACGAGGCAGCAGATGAAGGCCAGACGAGGAAGATGGAGAGAGGAGAAGCAGCGCA
 GCCATTCGGTCTATCAAGATGTCATGAAGATATGTGCTGCTCATCTCCCCTGAGTGGAGGCACCGA
 ATCATTATCAGGCAGTATGTCGGGCACTGTTTGCAGAAACCATGGAACGCATACGTTTCTGACCAAAAT
 TAAGAGTGCAGGAGAACCTTAAGAAGATTCAAGAAATGGAAGAGAGTATGACTGTAGCAGATCTG
 GAGGACCTGAAAAATGCAGACTGGGCACGGTCTGGGTACAGGTGATGAGGGATTGCGAAATGGGGTAA
 AACTTAAGAAAGTCCAACAGCGGCACTACAACCCATTGCCATTGAATACCAGCTCACCCCGTATGAGAT
 GCTCATGGACGACATTCGGTGCAAAAGATACACCTTGAGAAAAGTAAATGGTAAATGGTGACATTCGCCCT
 CGGTTAAGAAAGAGTGCTCATGAGATCATCCTTGACTTCATCAGATCAAGACCCCTTTAAATCCAGCTT
 CAGCCAGAAAACCTGAAACCAACCCACCACGGCCACGGAGCCTCCATGAAAGAATACTAGAAGAAATTA
 AGCAGAAAAGAAAGCTTCGGCCTGTCTACCAGAAGAAATAGACGGAGCAGACTAGATGTTACTACACCA
 GAATCTCCAAAGAATGTGGGAAATCATCTGTGGTGAATGGAGACTTAACATCTCAAACGAAAGAAAATG
 GGCTGGGTGCTGCCAGCCGGGCTGCACAGCCAAAGAGGCTCCTCAAAGCCCCGACGCTGGCTGAGT
 GGACAGCTCTGACTCTGAGGAGGAACTCTGCACAAGTCAACCAGCAGCAGCAGTGCATCTCCCTCCCTC
 TATGAGGACCCAGTACTGGAGGCCATGTCTCCAAGAAGAAGCCTCCAAAATTCTTGCCATCTCATCAA
 CACCCAGCCGAGAGAAGGCAACCACCACAGAGGCGCCACTCCATTGAGAAGGAAAACCTCTACAAATGT
 GAGGCAGTTTCTGCCCATCCAGGCAGAGCTCACGTTCTCTTGTCTTAGGATAACCAGTGTATGGCCA
 AGGACGCCTTCCGACCACTTTCTCTGCCATACAAACAGCTTCTCTGCTGAGCTCTCATCCTTTTGAAG
 CAGCCATGTTTGGGTAGCAGGGGCTATGTATTATCTGTTTGGAGAGCTTTTACCAGCAGGTGAAACC
 CTCAAAGGAGGAATTCTGCTACCCAGTGAATGCCTCGCTCTCACTGTGGAGGAAGTATGCACATTCGT
 CAGGTCCTGGTGAAGCGGAGCTGGAAGTACCAACAGTATAAGGATGTCTACACTGCCCTGAAAAAG
 GAAAGCTCTGTTCTGTTGCCGAACCCGGAGGTTTCTTCTTCACTGTGCTTACACCTGTCAAGTCTG
 TAAGAGGCCCGTGTGCTCACAGTGTGCAAAAAGATGCGGCTGCCTTCGAAGCCATACTCCACTTTACCT
 ATCTTCTCTTTGGGACCTTCTGCCTTGCAAGAGGGGAAAGTTGTTGAGGTCAGAAAAACCTTCTACTG
 GTCACCATCGGCCGCTTCGAAGTATTACCAGATTCTCTTCAAATCAAAGTCTGTGGACAAATCAGATGA
 AGAACTCCAGTTTCCAAAGAGTTTATGGAAGATTGGAGCACAATGGAGGTGTGTGTAGACTGCAAAAAG
 TTCATTTAGAGATCATCAGCTCAAGCCGGCGCAGCCTGGTGTGGCCAACAAAAGAGCCAGGTTGAAA
 GGAAGACACAGTCTTTCTACATGCTCCTCAGCGGCCCTCGGAGTACTGCCCTTCAGAACGGACTATCAA
 CGAGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202970 representing NM_001107381
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MAQPSSPGGEGPQLGATGDPDRDALSL EEILRLYNQPINEEQAWAVCFQCCGSLRAAARRQP HRRVRSAAQ
 IRVIESLGI IYKALDYGLKENEERELSPPLEQLIDQMANTSEADGSNDEGYEAADGPEDEEDGERRSSA
 AIRSYQDVMKICAAHLPT ESEAPNHYQAVCRALFAETMELHTFLTKIKSAKENLKKIQEMEKSDDCSTDL
 EDLKNADWARFVWQVMRDLRNGVKLKKVQQRQYNPLPIEYQLTPYEMLMDDIRCKRYTLRKVMVNGDIPP
 RLRKSAHEIILDFIRSRPPLNPASARKLKPTPPRPSLHERILEEIKAEKLRPVSP E EIRRSLDVTTTP
 ESPKNVKGSSVNGDLTSQTKENGLGAAQGPAPKRLLKAPTLAELDSSDSEEE TLHKSTSSSSASPSL
 YEDPVLEAMSKKKPKFLPISSTPQPERRQPQRHSIEKETPTNVRQFLPPSRQSSRSLVPRITSVWP
 RTPFRPLFSAIQTASLLSSHPEAMFGVAGAMYLLFERAFTSRWKPSKEEF CYPVECLALTVEEVMHIR
 QVLVKAELKYQYKDVYALKKGKLCFCCRTRRF SFTWSYTCQFCKRPVCSQCCKMRLPSKPYSTLP
 IFSLGPSALQRGESCSRSEKPS TGHRPLRSITRFSKSKSVDKSDEELQFPKEFMEDWSTMEVCVDCCK
 FISEIISRRSLVLANKRARLKRKTQSFYMSSAGPSEYCPSERTINEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001107381

ORF Size: 2247 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: [NM_001107381.1](#), [NP_001100851.1](#)

RefSeq Size: 5480 bp

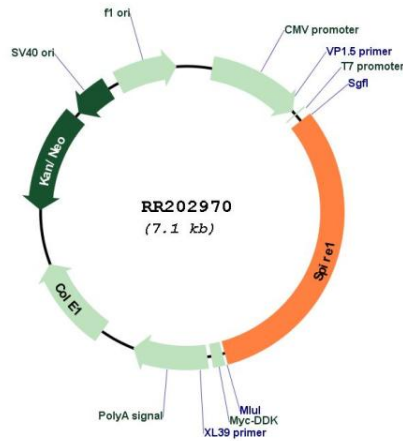
RefSeq ORF: 2250 bp

Locus ID: 307348

Cytogenetics: 18q12.1

MW: 85.2 kDa

Product images:



Circular map for RR202970