

## Product datasheet for **RC226142**

### **SPIRE1 (NM\_001128626) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SPIRE1 (NM_001128626) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPIRE1
Synonyms:	Spir-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226142 representing NM\_001128626  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTCAGGCGGCTGGCCCGCGGGCGGGAGCCGCGGACTGAGGCAGTGGCGCGGAGGGGCCG  
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 GCTGTACAACCAGCCATCAACGAGGAGCAGGCGTGGGCCGTGTCTACCACTGCTGCGGTTCCCTGCGC  
 GCCCGCGCCCGCGCCGACGCCCGCCACCGTGTGCGCTCGGCCGCGCAGATCCGCGTCTGGAGGGACG  
 GCGCCGTCAACCCTGGCGCCCGCGCCGACGACGCGGGAGAGCCGCCCCAGTTGCGGGTAAATTGGGATA  
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 TGAAGCTGACGGTAGCAATGATGAGGGCTATGAGGCTGCAGAAGAAGCCTGGGAGATGAAGATGAAAA  
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 GCCTTCCAGGCAGAGTTCGGCTCTCTTGAGGAATCTGCTACCCAGTGGAAATGCCTCGCTTACTGTG  
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 ACAAAGGGCCCGATTGAAAAGGAAAACGCAGTCTTCTACATGTCTCGCCAGGCCCTCGGAGTACTG  
 CCCTTCAGAGAGGACGATCAGTGAGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226142 representing NM\_001128626  
 Red=Cloning site Green=Tags(s)

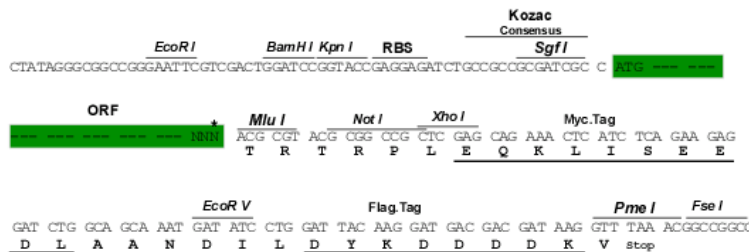
MAQAAGPAGGGEPRTEAVGGEGPREPGAAGGAAGGSRDALSLLEEILRLYNQPINEEQAWAVCYQCCGSLR  
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 LKENEERELSPPLEQLIDHMANTVEADGSNDEGYEAAEEGLGDEDEKRKISAIRSYRDMKLCAAHLPT  
 SDAPNHYQAVCRALFAETMELHTFLTKIKSAKENLKKIQEMEKSDSSTDLLEELKNADWARFWQVMRDL  
 RGVKLLKQYERQYNPLPIEYQLTPYEMLMDDIRCKRYTLRKMVNGDIPRLKSAHEIILDFIRSPP  
 LNPVSARKLKPTPPRPSLHERILEEIKAEKLRPVSPEEIRSRRLAMRPLSMSYFDLSDVTTPESTKN  
 LVESSMVNGLTSQTKENGLSTSQQVPAQRKLLRAPTLAELDSSESEETLHKSTSSSVSPSPPEEPV  
 LEAVSTRKKPKFLPISSTPQERRQPPQRHSIEKETPTNVRQFLPPSRQSSRSLEEFQYVECLALT  
 EVMHIRQVLVKAELKYQYKDIYALKKGKLCFCCRRRFFSFTWSYTCQFCKRPVCSQCCKMRLPS  
 KPYSTLPIFSLGPSALQRGESSMRSEKPSAHHRPLRSIARFSSKSKSMDKSDEELQFPKELMEDWSTME  
 VCVCKKFISEIISRRSLVLANKRARLKRKTQSFYMSSPGPSEYCPSEITISEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**  
**Cloning Scheme:**

Sgfl-MluI

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001128626

**ORF Size:** 2268 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\\_001128626.2](#)

**RefSeq ORF:** 2271 bp

**Locus ID:** 56907

**UniProt ID:** [Q08AE8](#)

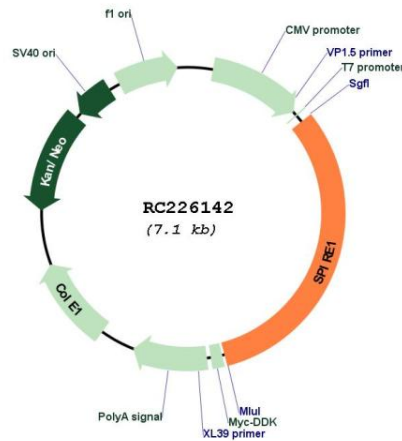
**Cytogenetics:** 18p11.21

**Protein Pathways:** Dorso-ventral axis formation

**MW:** 85.4 kDa

**Gene Summary:** Spire proteins, such as SPIRE1, are highly conserved between species. They belong to the family of Wiskott-Aldrich homology region-2 (WH2) proteins, which are involved in actin organization (Kerkhoff et al., 2001 [PubMed 11747823]).[supplied by OMIM, Mar 2008]

### Product images:



Circular map for RC226142