

## Product datasheet for **RG226036**

### **SPIRE1 (NM\_001128627) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SPIRE1 (NM_001128627) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPIRE1
Synonyms:	Spir-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG226036 representing NM\_001128627  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAACAGAGGTCATTGAATCTTTGGGAATTATTATTTATAAAGCACTGGACTATGGTTGAAGGAGA  
 ATGAAGAAAGGAATTAAGCCCTCCCCTAGAGCAGCTTATCGATCACATGGCCAACCGGTGGAAGCTGA  
 CCGTAGCAATGATGAGGGCTATGAGGCTGCAGAAGAAGGCTGGGAGATGAAGATGAAAAGAGAAAAATC  
 TCAGCTATTCCGGTCATATAGAGATGTCATGAAGTTGTGTGCTGCTCATCTCCCTACTGAATCAGATGCAC  
 CAAATCATTATCAGGCAGTATGTCGTGCACTGTTTGCAGAAACAATGGAGCTCCATACATTTCTGACCAA  
 AATTAAGAGTGCAGAAAGAGAATCTTAAGAAGATTCAAGAAATGGAAAAGAGCGATGAATCTAGCACAGAC  
 TTGGAAGAGCTGAAAACGCTGACTGGGCAGATTCTGGGTACAGGTGATGAGGGATTTGAGGAATGGGG  
 TAAAACCTAAGAAGGTCCAAGAGCGGCAGTACAACCCCTTGCCATTGAATATCAGCTCACCCCTTATGA  
 GATGTTAATGGATGACATTTCGTCGAAAAGATACACCTTGCAGAAAGTATGGTGAATGGTGAATTTCCC  
 CCTCGGTTAAAAAGAGTGCTCATGAAATCATCCTCGACTTCATCAGATCCAGACCTCCTTTAAATCCAG  
 TCTCAGCCAGAAAACCTGAAACCAACTCCACCACGGCCACGGAGCCTCCATGAAAGAATATTAGAAGAAAT  
 TAAAGCAGAAAGAAAGCTGCGGCCTGTATCACCAGAGGAGATTAGACGTAGCAGATTAGATGTGACTACC  
 CCTGAATCTACAAAGAATCTTGTGGAGTCATCTATGGTGAATGGAGGTTTGACATCACAACAAAAGAAA  
 ACGGGTTAAGTACCTCACAGCAGGTGCCTGCACAGCGGAAGAAGCTCCTCAGAGCCCAACTCTGGCCGA  
 ACTGGACAGCTCTGAGTCTGAGGAAGAAACGCTGCACAAGTCGACCAGCAGCAGCAGCGTGTCTCCCTCT  
 TTCCCTGAAGAGCCAGTCTGGAGGCCGTGTCCACAAGGAAGAAGCCTCCAAAATTCCTGCCCATATCAT  
 CAACACCCAGCCAGAGAGACGCGCACCCACCCAGAGACGACATTCATTGAAAAGGAAACGCCTACTAA  
 CGTGAGGCAGTTCTGCGCCTTCCAGGCAGAGTTCCCGCTCTCTTGAGGAATTCTGCTACCCAGTGGAA  
 TGCCCTCGCTCTTACTGTGGAAGAAGTATGCATATTCGCCAGGTCTGGTGAAGGCAGAGCTGAAAAAT  
 ACCAACAGTATAAAGACATCTACACCGCCTTGAAAAAAGGAAAGCTCTGCTTTTGTGCGGAACCAGGAG  
 GTTTTCTTCTTCACTTGGTCTTATACCTGTCACTTCTGTAAGAGGCCGGTGTGCTCACAGTGTGCAAA  
 AAGATGCGGCTGCCCTCAAACCATCTCCACTTCTCTATCTTTTATTGGGACCTTCTGCTCTGCAAA  
 GAGGGGAAAGTAGTATGAGGTGAGAAAACCTCCACTGCCATCATCGGCCACTTCGGAGCATTGCCAG  
 GTTCTCCTCAAAATCTAAGTCTATGGACAAATCAGATGAAGAATCCAGTTTCCCAAAGAGTTGATGGAG  
 GACTGGAGCACCATGGAGGTGTGTGGACTGCAAGAAGTTCATTTCCGAAATCATCAGTCAAGCCGGC  
 GCAGTCTGGTGTGGCCAAACAAAAGGGCCGATTGAAAAGGAAAACGCAGTCTTCTACATGTCTCGCC  
 AGGCCCTCGGAGTACTGCCCTCAGAGAGGACGATCAGTGAGATC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG226036 representing NM\_001128627  
 Red=Cloning site Green=Tags(s)

METEVIESLGIIYKALDYGLKENEERELSPLEQLIDHMANTVEADGSNDEGYEAAEEGLGDEDEKRI  
 SAIRSYRDMVLMKCAHLPTESDAPNHQAVCRALFAETMELHTFLTKIKSAKENLKKIQEMEKSDSST  
 LEELKNADWARFVQVMRDLRNGVKKVQERQYNPLPIEQYQTPYEMLMDDIRCKRYTLRKVMVNGDIP  
 PRLKKSAAHEIILDFIRSRPPLNPVSARKLKPTPPRPSLHERILEEIKAEKLRPVSPPEIRRSRLDVT  
 PESTKNLVESSMVNGLTSQTKENGLSTSQQVPAQRKLLRAPTLAELDSSESEETLHKSTSSSSVSPS  
 FPEEPVLEAVSTRKKPPKFLPISSTPQPERRQPPQRRHSIEKETPTNVRQFLPPSRQSSRSLEEFYCPVE  
 CLALTVVEVMHIRQVLVKALEKYQQYKDIYALKKGGKLCFCRTRRFSTWYSYTCQFCKRPVCSQCCK  
 KMRLPSKPYSTLPIFSLGPSALQRGESSMRSEKPTAHHRPLRSIARFSSKSKSMDKSDEELQFPKELME  
 DWSTMEVCVDCKKFISEIISRRSLVLANKRARLKRKTQSFYMSSPGPSEYCPSERTISEI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001128627.1</a> , <a href="#">NP_001122099.1</a>
<b>RefSeq Size:</b>	5100 bp
<b>RefSeq ORF:</b>	1869 bp
<b>Locus ID:</b>	56907
<b>UniProt ID:</b>	<a href="#">Q08AE8</a>
<b>Cytogenetics:</b>	18p11.21
<b>Protein Pathways:</b>	Dorso-ventral axis formation
<b>Gene Summary:</b>	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]