

Product datasheet for **RG213848**

SPIRE1 (NM_020148) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPIRE1 (NM_020148) 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)



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ORF Nucleotide Sequence:

>RG213848 representing NM_020148
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAACCGGTGGAAGCTGACGGTAGCAATGATGAGGGCTATGAGGCTGCAGAAGAAGCCCTGGGAG
 ATGAAGATGAAAAGAGAAAAATCTCAGCTATTCGGTCATATAGAGATGTCATGAAGTTGTGTGCTGCTCA
 TCTCCCTACTGAATCAGATGCACCAAATCATTATCAGGCAGTATGTCGTGCACTGTTTGAGAAAACAATG
 GAGCTCCATACATTTCTGACCAAAATTAAGAGTGCAGAAAGAGAATCTTAAGAAGATTCAAGAAATGGAAA
 AGAGCGATGAATCTAGCACAGACTTGGAAAGAGCTGAAAAACGCTGACTGGGCACGATTCTGGGTACAGGT
 GATGAGGGATTTGAGGAATGGGGTAAAACCTAAGAAGTCCAAGAGCGGCAGTACAACCCCTTTGCCATT
 GAATATCAGCTCACCCCTTATGAGATGTTAATGGATGACATTGCTGCAAAAAGATACACCTTGCAGAAAAG
 TGATGGTGAATGGTGATATCCCTCGGTTAAAAAGAGTGCTCATGAAATCATCTCGACTTCATCAG
 ATCCAGACCTCCTTAAATCCAGTCTCAGCCAGAAAACCTGAAACCACTCCACCACGGCCACGGAGCCTC
 CATGAAAAGAAATATTAGAAGAAATTAAGCAGAAAAGAAAGCTGCGGCCTGTATCACCAGAGGAGATTAGAC
 GTAGCAGATTAGATGTGACTACCCTGAATCTACAAAAGAATCTTGTGGAGTCATCTATGGTGAATGGAGG
 TTTGACATCACAAAACAAAAGAAAACGGGTTAAGTACCTCACAGCAGGTGCCTGCACAGCGGAAGAAGCTC
 CTCAGAGCCCCAACTCTGGCCGAAGTGGACAGCTCTGAGTCTGAGGAAGAAACGCTGCACAAGTCGACCA
 GCAGCAGCAGCGTGTCTCCCTCTTCCCTGAAGAGCCAGTCTGGAGGCCGTGTCCACAAGGAAGAAGCC
 TCCAAAATTCCTGCCATATCATCAACACCCAGCAGAGAGACGGCAGCCACCCAGAGACGACATTCC
 ATTGAAAAGGAAACGCCTACTAACGTGAGGCAGTTCCTGCCCTTCCAGGCAGAGTTCCTCGCTCTCTTG
 AGGAATCTGCTACCCAGTGAATGCCTCGCTTACTGTGGAAGAAGTATGATGCAATTCGCCAGGTCTCT
 GGTGAAGCAGAGCTGGAAAAATACCAACAGTATAAAGACATCTACACCGCCTTGAAAAAGGAAAGCTC
 TGCTTTTGTGCGAACCAGGAGTTTTCTTCTTCACTTGGTCTTATACCTGTCAAGTCTGTAAGAGGC
 CGGTGTGCTCACAGTGTGCAAAAAGATGCGGCTGCCCTCAAACCACTACTCCACTCTTCTATCTTTTC
 ATTGGGACCTTCTGCTCTGCAAAGAGGGGAAAGTAGTATGAGGTGAGAAAAACCTCCACTGCCCATCAT
 CGGCCACTTCGGAGCATTGCCAGGTTCTCTCAAATCTAAGTCTATGGACAAATCAGATGAAGAAGTCC
 AGTTTCCAAAGAGTTGATGGAGGACTGGAGCACCATGGAGGTGTGTGGACTGCAAGAAGTTCATTTT
 GGAATCATCAGTTCAAGCCGGCGCAGTCTGGTGTGGCCAACAAAAGGGCCCGATTGAAAAGGAAAACG
 CAGTCTTCTACATGCTCTGCCAGGCCCTCGGAGTACTGCCCTTACAGAGGACGATCAGTGAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213848 representing NM_020148
 Red=Cloning site Green=Tags(s)

MANTVEADGSNDEGYEAAEEGLGDEDEKRKISAIRSYRDVVKLCAHLPTESDAPNHQAVCRALFAETM
 ELHTFLTKIKSAKENLKKIQEMEKSDSSTDLLEELKNADWARFVWQVMDLRNGVKLKKVQERQYNPLPI
 EYQLTPYEMLMDDIRCKRYTLRKVMVNGDIPPRLLKSAHEIILDFIRSRPPLNPVSARKLKPTPPRPRSL
 HERILEEIKAEKLRPVSPPEEIRRSRLDVTTPESTKNLVESSMVNGGLTSQTKENGLSTSQQVPAQRKLL
 LRAPTLAELDSSESEEEHLKSTSSSVSPSFPEEPVLEAVSTRKPPKFLPISSTPQERRQPPQRRHS
 IEKETPTNVRQFLPPSRQSSRSLEEFQYPVECLALTVEEVMHIRQVLVKALEKYQYKDIYALKKGGK
 CFCRRTRRF SFF TWSYTCQFCKRPVCSQCCKMRLPSKPYSTLPIFSLGPSALQGESSMRSEKPSSTAAH
 RPLRSIARFSSKSKSMDKSDEELQFPKELMEDWSTMEVCVDCKKFISEIISSSRRSLVLANKRARLKRKT
 QSFYMSSPGPSEYCPSERTISEI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_020148

ORF Size: 1749 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_020148.2](#), [NP_064533.3](#)

RefSeq Size: 5402 bp

RefSeq ORF: 2229 bp

Locus ID: 56907

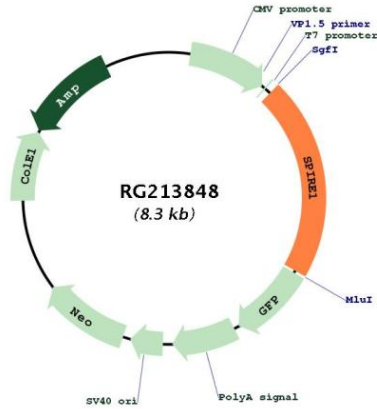
UniProt ID: [Q08AE8](#)

Cytogenetics: 18p11.21

Protein Pathways: Dorso-ventral axis formation

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 RG213848