

## Product datasheet for **SC311128**

### **SPIRE1 (NM\_020148) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SPIRE1 (NM_020148) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPIRE1
Synonyms:	Spir-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC311128 representing NM\_020148.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
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CGGCTGTACAACCAGCCATCAACGAGGAGCAGGCGTGGGCCGTGTGCTACCAGTCTGCGGTTCCCTG
CGCGCCGCGCCCGCCGCGCCGACGCCCGCCACCGTGTGCGCTCGGCCGCGCAGATCCGCGTCTGGAGG
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TCCACTGCCATCATCGGCCACTTCGGAGCATTGCCAGTTTCTCCTCAAAATCTAAGTCTATGGACAAA
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TGCAAGAAGTTTCAATTCGGAAATCATCAGTTCAAGCCGGCGCAGTCTGGTGTGGCAACAAAAGGGCC
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AGGACGATCAGTGAGATCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_020148

**Insert Size:** 2229 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_020148.2</a>
<b>RefSeq Size:</b>	5402 bp
<b>RefSeq ORF:</b>	2229 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>MW:</b>	84 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>