

Product datasheet for **RR206145**

Spire2 (NM_001127538) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spire2 (NM_001127538) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spire2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR206145 representing NM_001127538
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCGGGCGGGCGGGCGGGCGGCAGCAGCTCCCGAACCGCGGGGGCGGGCGGGCCGAGCCGT
 GGGAGCTGTCCCTGGAGGAAGTCTGAAGGTGTACGAGCAGCCATCAACGAGGAGCAGGCCTGGGCGGT
 GTGCTTCCAGGGCTGCCCGGGCTGCGGGGCGAGCCGGCGGCGTGCGGCGCATCCGGGACACGGCAGAC
 ATCCTCTCGCTAGGACGGCTCGGTTGGCGCGCGCTGGAGCCCGAGCCTTCGACCATGGTGGTCCCAC
 CCGCCAACCTCAGAAGCCAGATGGTGCAGTCACTGGGCTTTGCCATCTACCGTGCCTGGACTGGGGTT
 AGACGAGAATGAGGAGCGAGAGCTCAGCCCGCAGCTGGAGAGGCTCATCGACCTCATGGCCAACAGCGAC
 TGTGAAGACAGCAGCTGCGGGGCGAGATGAGGGCTACGGGGTCCAGAAGAGGAGGAGGAGGCTGAGG
 GCGGCCCCGAGCTGTGCGCACCTTTGCTCAGGCCATGCGGCTGTGTGCCTCACGCCTGACGGATCCCCA
 CGGTGCGCAGGCCACTACCAGGCAGTGTGCCGAGCTCTTTTGTGGAGACGCTCGAGCTCCGTGCCTTC
 CTGGCCCGGGTGAAGGAGGCCAAAGAGATGCTGCAGAAGCTAGGAGAGGATGAGCCACGGGTAGAGAAGC
 CGCTGGCCGAGCTCGACCACCTGGGACACACAGACTGGGCCCGGCTGTGGGTCCAGCTCATGCGGGAGCT
 CCGTCACGGGGTGAAGCTGAAGAAGGTGAAGAAGAAGGAGTTCAACCCCTGCCACCGAGTTCCAGCTC
 ACGCCCTTCGAGATGCTGATGCAGGATATCCGTGCCAGGAATAAAGCTGCGAAAGGTCATGGTCGATG
 GCGACATCCCTCCCGAGTGAAGAAAGACGCCATGAGCTCATCTGGACTTCATCCGTTACCGGCTCC
 ACTGAAGCAGGTCTCAGAGAGACGGCTTCGCCCTGTGCCACAGAAGCAAGAAGAACTGCACGAGAAGATC
 CTGGAGGAAATCAAACAGGAGCGGAGGCTTCGTCCAGTAGGGGCCAGCACTTGGGAGCCCGTGGGTTTG
 GTTCTCTGCCCTGCATCCTCAACGCCTGCTCCGGGGACATCAAGTCCACTTCTGCATCAACCTGTCTGT
 CACAGATGCTGGGAGTGGGAGTACGCGCCACGGCCCGGGTCCCTGCTGAAAGCCCCGACCTTAGCAGAG
 ATGGAAGAGATGAGCACGCTGAGGAAGAAGAGTCCCATGTGGTGAGGTGGCGCTGAAGCGGGACCGCT
 CTTTTCCGGAACACGACCTGGCCAGCTTCGGAGTGAGATGGGATCTGGCCTTCAGTCAGCCACTCAGCC
 CCCAGGAGGGACAGAGCCTCCTCGGGTCAGAGCAGGCAGCATGCACTCCTGGAGGCCAGCACCCGAGAC
 CAGGGTCTCTGTTCTGTGAGTGGCCAGTCTCAGCCTCACCCAGCAACTTGAGCTCAGCGGATGGACCTG
 AGGCTTCTGCACCAGATGCCAGACATCTATGGCTGGAGTTCAGCCATCCTGTGGAGAGCCTGGCTCTGAC
 TGTAGAAGAGGTGGTAGATGTGCGGAGGGTCTGGTGAAGGCAGAGATGGAGAAGTTTCTGCAGGACAAG
 GAGCTCTTCAGCAGCCTTAAGAGGGGAAGATTTGTTGCTGCTGCCGAACCAAGTTTCCCTATTTTCT
 GGCCACCTACCTGTCTTCTGCAAGAGAGCCGTGTGCACTTCCGTAGCGTAAAGATGAAGATGCCTTC
 CAAGAAGCATGGACACATCCCTGTGTACACACTTGGTTTCGAGAGTCTCCAGAGGGTGCCAACTACCAAA
 GCCTCGCCAGCACTGAGGAGAGACGCCTTCCAATGCCTGCAGGGACCGAAGTGGCGGAGCGTGGAGGAGG
 AGTTCCCCACATCTATGCCACGGCTGTGTCTCAAGGACGCTGCAGTGACTGCACCAGCTTTGTGGC
 TGACGTAGTGTCTCCAGCCGAAGAGCGTGGATGTCCTCAATGCCACGCCACGGCGCAGCCACCAGACG
 CAGTCCCTCTATGTCCCCAACACCAGGACTCTCAACTTCCAA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206145 representing NM_001127538
Red=Cloning site Green=Tags(s)

MARAGGGGAAAPERAGGAARPEPWELSL EEV LK VYE QP I NEE QAWAVCFQGC RGLRGE PGGVRRIRDTAD
 ILLRRDGSV GARLEPEPSTMVPPANSEAQMVQSLGFAIYRALDWGLDENEERELSPQLERLIDL MANS
 CEDSSCGAADEGYGGPEEEEEAE GGPRAVRTFAQAMRLCASRLTDPHGAQAHYQAVCRALFVETLELRAF
 LARVREAKEM LQKLGEDEPRVEKPLAELDHLGHTDWARLWVQLMREL RHGVK LKKVQEKEFNPLPTEFQL
 TPFEMLMQDIRARNYKLRKVMVDGDI PPRVKKDAHELILDFIRSRPPLKQVSERRLRPVPQKQRTLHEKI
 LEEIKQERRLRPVGAQHLGARGFGLPCILNACSGDIKSTSCINLSVTDAGSGSQRP RPVLLKAPT LAE
 MEEMSTPEEEESPCGEVALKRDRSFSEHDLAQLRSEMGSGLQSATQPPGGTEPPRVRAGSMHSWRPSTRD
 QGLCSVSGSQSPHPNLSSADGPEASAPDARHLWLEFSHPVESLALTVEEVVDVRRVLVKAEMEKFLQDK
 ELFSSLKRGKICCCCR TKFPLFSWPPTCLFCKRAVCTSCSVKMKMPSKKKHGHIPVYTLGFESLQRPVPTTK
 ASPALRRDAFQCLQGPKWRSVEEEFPHIYAHGCVLKDVCS DCTSFVADVVCSSRKSVDVLNATPRRSHQT
 QSLYVPNTRTLNFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001127538

ORF Size: 2142 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_001127538.1](#), [NP_001121010.1](#)

RefSeq Size: 2304 bp

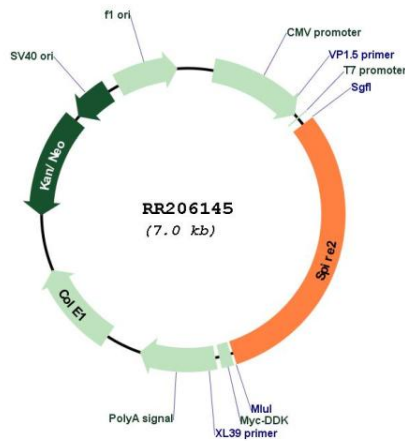
RefSeq ORF: 2145 bp

Locus ID: 307925

Cytogenetics: 19q12

MW: 79.7 kDa

Product images:



Circular map for RR206145