

## Product datasheet for MR204177

### Spry4 (NM\_011898) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Spry4 (NM\_011898) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Spry4  
 Synonyms: A030006O18Rik; sprouty4  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR204177 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCCCCGGTTCCACAGAGCAGCGTCCCTGTGAATCCCAGCTCAGTCATGGTGCAGCCCCTCCTTG  
 ACAGCAGAGCGCCCCACAGCCGGCTCCAGCACCCACTCACCATCTACCCATTGACCAGATGAAGACCAG  
 CCACGTGGAGAATGACTACATAGACAACCCTAGCCTGGCCCTGCCACGGGTCCAAGCGCCCCGGGGC  
 GGGCCACCAGAGCTGGCTCCTACACCTGCCCGCTGTGACCAGGATATTACTCACCCTGGATCTCCTTCA  
 GCGGTTCGGCCAGCTCTGTAAGCAGCAGTAGCAGCACTTCTCCGACCAGAGGCTCCTAGATCACATGGC  
 TCCACCGCCCGTGGCTGAGCAGGCTCACCAGGCTGTGCGCCTCCAGCCCAAGGTGGTCACTGTAAG  
 CCGCTGGACCTCAAAGGCCCGACAGCTCCGCCAGAGCTAGACAAGCACTTCTTGCTGTGTGAGGCCTGTG  
 GAAAGTGAAGTCAAAGAGTGTGCGTCCCTCGGACGTTACCTTCTGCTGGTCTGCAACCAGGAGTG  
 CCTGTGCTCGGCTCAGACGCTGGTCAACTATGGCACATGCATGTGTCTGGTGCAAGGTATCTTCTATCAC  
 TGTAATAAGGAGTATGAGGGCTCTTGCGCCGACCACCCTGCTCCTGTTCCGGCTCAAAGTCTGCG  
 CCCGCTGGTCTCATGGGCGCCCTCTGTGGTGTGCCCTGTCTGTGTGCTACCTGCCGGCCACAGG  
 CTGCGTCAAGCTGGCCAGCGAGGCTACGACCCCTGAGACGCCCGGTTGCCGTGCAAGCACACGAAC  
 AGCGTCATCTGCAAGGCAGCCAGTGGGGACACCAAGACCAGCAGGTCTGACAAGCCTTTC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204177 protein sequence  
Red=Cloning site Green=Tags(s)

MEPPVPQSSVPVNPSSVMVQPLLDSPHRSRLQHPLTILPIDQMKTSHVENDYIDNPSLAPATGPKRPRG  
 GPELAPTPARCDQDITHHWISFSGRPSSVSSSSSTSSDQRLLDHMAPPVVAEQASPRAVRLQPKVVHCK  
 PLDLKGP TAPPELDKHFLLCEACGKCKCKECASPRTLPSCWVCNQECLCSAOTLVNYGTCMCLVQGIFYH  
 CTNEDDEGSCADHPCSCSGSNCCARWSFMGALSVVLPCLLCYL PATGCVKLAQRGYDRLRRPGCRCKHTN  
 SVICKAAASGDTKTSRSDKPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_011898

**ORF Size:** 903 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\\_011898.3](#)

**RefSeq Size:** 4611 bp

**RefSeq ORF:** 903 bp

**Locus ID:** 24066

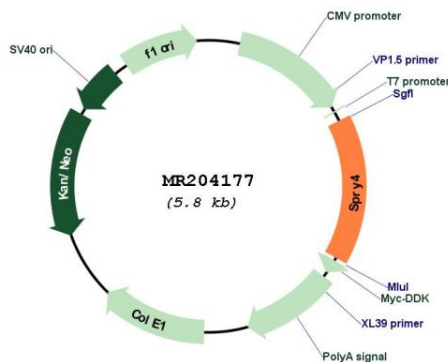
**UniProt ID:** [Q9WTP2](#)

**Cytogenetics:** 18 20.5 cM

**MW:** 32.5 kDa

**Gene Summary:** Suppresses the insulin receptor and EGFR-transduced MAPK signaling pathway, but does not inhibit MAPK activation by a constitutively active mutant Ras. Probably impairs the formation of GTP-Ras (By similarity). Inhibits Ras-independent, but not Ras-dependent, activation of RAF1 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204177