

## Product datasheet for **RC237292**

### Sprouty 4 (SPRY4) (NM\_001293290) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sprouty 4 (SPRY4) (NM_001293290) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sprouty 4
Synonyms:	HH17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237292 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCCCGATCCCACAGAGCGCCCCCTTGACTCCCAACTCAGTCATGGTCCAGCCCCCTTCTTGACA  
GCCGGATGTCCCACAGCCGGCTCCAGCACCCACTCACCATCTACCCATTGACCAGGTGAAGACCAGCCA  
TGTGGAGAATGACTACATAGACAACCCTAGCCTGGCCCTGACCACCGCCCAAAGCGGACCCGGGGCGG  
GCCCCAGAGCTGGCCCCGACGCCCGCCGCTGTGACCAGGATGTCACCCACCATTGGATCTCCTTCAGCG  
GGCAGCCAGCTCTGTGAGCAGCAGCAGCAGCACATCCTCTGACCAACGGCTCTTAGACCACATGGCACC  
ACCACCGTGGCTGACCAGGCCCTACCAAGGGCTGTGCGCATCCAGCCAAAGGTGGTCCACTGCCAGCCG  
CTGGACCTCAAGGGCCCCGGGCTCCACCCGAGCTGGACAAGCACTTCTTGTGTGCGAGGCCTGTGGGA  
AGTGTAATGCAAGGAGTGTGCATCCCCCGGACGTTGCCTTCTGCTGGGTCTGCAACCAGGAGTGCCT  
GTGCTCAGCCCAGACTCTGGTCAACTATGGCACGTGCATGTGTTTGGTGCAGGGCATCTTCTACCACTGC  
ACGAATGAGGACGATGAGGGCTCCTGCGCTGACCACCCCTGCTCCTGCTCCCGCTCAACTGCTGCGCCC  
GCTGGTCTTTCATGGGTGCTCTCCTCGTGGTGTGCCCTGCCCTGCTGCTACCTGCCTGCCACCGGCTG  
CGTGAAGCTGGCCAGCGTGGCTACGACCGTCTGCGCCGCCCTGGTTGCCGCTGCAAGCACACGAACAGC  
GTCATCTGCAAAGCAGCCAGCGGGATGCCAAGACCAGCAGGCCCGACAAGCCTTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237292 protein sequence  
Red=Cloning site Green=Tags(s)

MEPPIPQSAPLTPNSVMVQPLLD SRMSHSRLQHPLTILPIDQVKTSHVENDYIDNPSLALTTGPKRTRGG  
 APELAPTPARCDQDVTHHWISFSGRPSSVSSSSSTSSDQRLLDHMAPPVADQASPRAVRIQPKVVHCQP  
 LDLKGPVAPPELDKHFLLCEACGKCKCKEACASPTLPSCWVCNQECLCSAQTLVNYGTCLVQGIIFYHC  
 TNEDDEGSCADHPCSCSRSNCCARWSFMGALSVLPLCLLCYLPATGCVKLAQRGYDRLRRPGCRCKHTNS  
 VICKAASGDAKTSRPDKPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1490\\_a10.zip](https://cdn.origene.com/chromatograms/ja1490_a10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001293290

**ORF Size:** 897 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\\_001293290.2](#)

**RefSeq Size:** 5257 bp

**RefSeq ORF:** 900 bp

**Locus ID:** 81848

**UniProt ID:** [Q9C004](#)

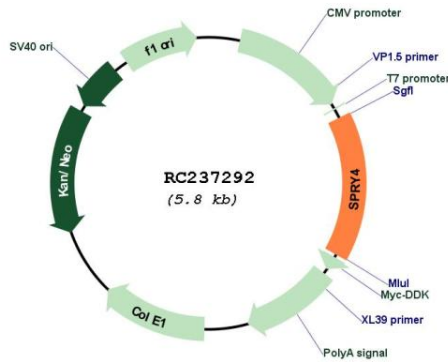
**Cytogenetics:** 5q31.3

**Protein Pathways:** Jak-STAT signaling pathway

**MW:** 32.5 kDa

**Gene Summary:** This gene encodes a member of a family of cysteine- and proline-rich proteins. The encoded protein is an inhibitor of the receptor-transduced mitogen-activated protein kinase (MAPK) signaling pathway. Activity of this protein impairs the formation of active GTP-RAS. Nucleotide variation in this gene has been associated with hypogonadotropic hypogonadism 17 with or without anosmia. Alternative splicing results in a multiple transcript variants. [provided by RefSeq, Jun 2014]

**Product images:**



Circular map for RC237292