

## Product datasheet for **SC305311**

### Sprouty 4 (SPRY4) (NM\_030964) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sprouty 4 (SPRY4) (NM_030964) Human Untagged Clone
Tag:	Tag Free
Symbol:	Sprouty 4
Synonyms:	HH17
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_030964 edited  
 GCCCCGGCTTCAGGATTTACACAGACGTGGGGCGATGCTTGTGACCCTGCAGCTCCTCAC  
 AGCCTGATGCTCAGCCCCCTCCCACAGGGCCCTAGAAGCCTGTTTCTCCGTACAGTCC  
 AGGACCTCCAGCCCCATGGAGCCCCGATCCCACAGAGCGCCCCCTTGACTCCCAACTCA  
 GTCATGGTCCAGCCCCTTCTTGACAGCCGGATGTCCACAGCCGGCTCCAGCACCCTC  
 ACCATCTACCCATTGACCAGGTGAAGACCAGCCATGTGGAGAATGACTACATAGACAAC  
 CCTAGCTGGCCCTGACCACCGCCCAAAGCGGACCCGGGGCGGGGCCCCAGAGCTGGCC  
 CCGACGCCCCCGCTGTGACCAGGATGTACCCACCATTGGATCTCCTTCAGCGGGCGC  
 CCCAGCTCTGTGAGCAGCAGCAGCAGCACATCCTCTGACCAACGGCTCTTAGACCACATG  
 GCACCACCACCCGTGGCTGACCAGGCTCACCAAGGGCTGTGCGCATCCAGCCCAAGGTG  
 GTCCACTGCCAGCCGCTGGACTCAAGGGCCCGGGTCCACCCGAGCTGGACAAGCAC  
 TTCTTGCTGTGCGAGGCCTGTGGAAAGTAAATGCAAGGAGTGTGCATCCCCCGGACG  
 TTGCCCTTCTGCTGGGTCTGCAACCAGGAGTGCCTGTGCTCAGCCAGACTCTGGTCAAC  
 TATGGCAGTGCATGTGTTGGTGCAGGGCATCTTCTACCACTGCACGAATGAGGACGAT  
 GAGGGCTCTGCGCTGACCACCCTGCTCCTGCTCCCGTCCAACCTGCTGCGCCCGCTGG  
 TCCTTCATGGGTCTCTCCTGGTGTGCCCTGCCTGCTCTGTACCTGCCTGCCACC  
 GGCTGCGTGAAGCTGGCCAGCGTGGCTACGACCGTCTGCGCCGCCCTGGTTGCCGCTGC  
 AAGCACACGAACAGCGTCATCTGCAAAGCAGCCAGCGGGGATGCCAAGACCAGCAGGCC  
 GACAAGCCTTTCTGACAGTTTGTGTCGAAGCCCCAGTGCCTGCTGCTGGAACCTGGTTCT  
 CTTCTGACATCTAAGAAGACTGCAGCAAGGTGAGAGTTTTAGCCTCCTGAGGCTGACCT  
 TGCTAGTCTGCCACTCCCTACCCAGCTTCGGAAAATACAGAGACCACCACCGTAC  
 CCTGTATCCCCAAGATGATGAAGAAGCACTTTGGGGCTTTTTTTCAGGGTCTGAAACT  
 TTGTGTCAAACAGACAATGCAGGGGAGGGTGTGGTTTGGGGGAAATTTTTCTTTTTCA  
 GAAGACAGAACACAGATGTGGACACATATCCGGAAACTGCAGCTGCTTGAATGCCTTCCC  
 AGCCCCCTCTTCTCCCTCCCTCCCTCCGCACCCCTTCTCTTTTTCCATTGCTTTGGC  
 TCTCACAGGAGCTAGCTGCCTGGGAGGAATTGTTAACTGAGTACCAGGGTACCTTTAAAG  
 AAGACCTTGGAGTCTTCTATACCTTCTTCTCCTTCCCCATCTCACTCCACCCCACTTTG  
 TCCCTGATGCTTGGGAAAGGTGTAGAACCCTAGCAGTTCTATTGTATATACTTGGG  
 AGCCACTGAGAACAGAGGACGGCCAGTGAAGTCCAAGCCTCGTTCCCTCCTTCTGCCTCCC  
 GGAGCCACAGGATGGATTTAGGAGCCACTGCTCAGTGCATTTCTCCCTTCCAACCTGCATC  
 AACTAACTCTCGGGGTGTTCTGCTCACACACCGTCTCGGTTCTTACTGAGTACAG  
 ACTCGCCTGCCCACTACGTGTCCTGGGTTCTCTACTCAGATCCCTTCCAGAACTTTA  
 TATGGGTAGAGGAAGCCAGGGCGCAAATGCGAGACCAAATATCATTTTGCCAATGAGTC  
 TGAGGCTGTGGTCTCTGGATCCAGTCATTATGTTTTTATAGAATAATTAACCGGATGCT  
 AACGGTGTTTTTAAAAATAATAAAAACAACCTGTTTCTTTTGGCCACCCCAAGGAAG  
 GGCTGATTTCAAATCTGGGGGAGCAACCTCAAGGAACACAATTTCCCTCCCTATCAA  
 CAAGAGGATTTAACAGCAAAGAAGAGAGGCAGCACCTCCCATGGCAGAATGACCGCTG  
 AGCCAGGCTGGGTTTGGGTTTCTTCTTCTGATTCTGCTGCTCACTGTGCATAGCCTTTT  
 GTGTATAGTAATGTGCTGTATCTTTAATGTAATAGAGAGATGATGAAAAAGAGTCTA  
 TTTTAGTGTAGGAAGCCCCAGCAGGGGAGTCGGAAGAGCTTGAAGAGCTGGGGAGAGG  
 GTAGGGGAAAGGTTTTTCCAGGGGCCACTGGGTTTGGCCCTGCTTCTGTGCACAGCCAC  
 ACCACCCTCTCCCAGACCCCTCAAAG

**Restriction Sites:** Please inquire  
**ACCN:** NM\_030964  
**Insert Size:** 2500 bp

<b>OTI Disclaimer:</b>	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>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_030964.2.
<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>	<u><a href="#">NM_030964.2</a></u> , <u><a href="#">NP_112226.2</a></u>
<b>RefSeq Size:</b>	4934 bp
<b>RefSeq ORF:</b>	969 bp
<b>Locus ID:</b>	81848
<b>UniProt ID:</b>	<u><a href="#">Q9C004</a></u>
<b>Cytogenetics:</b>	5q31.3
<b>Domains:</b>	Sprouty
<b>Protein Pathways:</b>	Jak-STAT signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>