

Product datasheet for **SC321628**

Sprouty 2 (SPRY2) (NM_005842) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sprouty 2 (SPRY2) (NM_005842) Human Untagged Clone
Tag:	Tag Free
Symbol:	Sprouty 2
Synonyms:	hSPRY2; IGAN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005842.2
 ATCGCAGAAAGAAGAGAAATCCAAGGGAGAGGGGTTGGTGCAAAGCCGCGATCACGGAGTT
 CAGATGTGTTCTAAGCCTGCTGGAGTGACCACACTTCCAAGACCTGATGGAGGCCAGAGC
 TCAGAGTGGCAACGGGTGCGAGCCCTTGTGCAGACGCCCCGTGACGGTGGCAGACAGCG
 TGGGGAGCCCCAGCCAGAGACGCCCTCACCCAGCAGGTACATGTCTTGTCTCTGGATCA
 GATCAGAGCCATCCGAAACACCAATGAGTACACAGAGGGGCTACTGTGTCGTCCTCAAGACC
 TGGGCTCAAGCCTGCTCCTCGCCCTCCACTCAGCACAACACGAGAGACTCCACGGTCT
 GCCTGAGCACCGCCAGCCTCCTAGGCTCCAGCACTCGCAGGTCCATTCTTCTGCACGAGC
 CCCTCTGTCCAGATCCATAAGCACGGTCAGCTCAGGGTCGCGGAGCAGTACGAGGACAAG
 TACCAGCAGCAGCTCCTCTGAACAGAGACTGCTAGGATCATCCTTCTCCTCCGGGCTGT
 TGCTGATGGCATAATCCGGGTGCAACCCAAATCTGAGCTCAAGCCAGGTGAGCTTAAGCC
 ACTGAGCAAGGAAGATTTGGGCTGCACGCCTACAGGTGTGAGGACTGTGGCAAGTGCAA
 ATGTAAGGAGTGACCTACCAAGGCCTCTGCCATCAGACTGGATCTGCGACAAGCAGTG
 CCTTTGCTCGGCCAGAACGTGATTGACTATGGGACTTGTGTATGCTGTGTGAAAGGTCT
 CTTCTACTACTGTTCTAATGATGATGAGGACAACCTGTGCTGACAACCCATGTTCTTGCGAG
 CAGTCTCACTGTTGTACACGATGGTCAGCCATGGGTGTATGTCCCTCTTTTGGCCTTG
 TTTATGGTGTTACCTTCCAGCCAAGGGTGCCTTAAATTTGTGCCAGGGGTGTTATGACCG
 GGTTAACAGGCCTGGTTCGCCGTGTA AAAA ACTCAAACACAGTTTGTGCAAAGTTCCAC
 TGTCCTCCCTAGGAACCTTGA AAAA ACCAATAGCATCATTAAATCAGGAATATTACAGTA
 ATGAGGATTTTTCTTTCTTTTTTAATACACATATGCAACCAACTAAACAGTTATAATC
 TTGGCACTGTTAATAGAAAGGTGGGATAGTCTTTGCTGTTTGGGTGAAATGCTTTTTGT
 CCATGTGCCGTTTTAACTGATATGCTTGTAGAACTCAGCTAATGGAGCTCAAAGTATGA
 GATACAGA AACTTGGTGACCCATGTATTGCATAAGCTAAAGCAACACAGACTCCTAGGC
 AAAGTTTTTGTGTAATAGTACTTGC AAAA ACTTGTA AATTAGCAGATGACTTTTTTCC
 ATTGTTTTCTCCAGAGAAATGTGCTATATTTTTGTATATACAATAATATTTGCAACTGT
 GAAAAACAAGTTGTGCCATACTACATGGCACAGACACAAAATATTATACTAATATGTTGT
 ACATTCGGAAGAATGTGAATCAATCAGTATGTTTTTAGATTGTATTTGCCTTACAGAAA
 GCCTTTATTGTAAGACTCTGATTTCCCTTTGGACTTCATGTATATTGTACAGTTACAGTA
 AAATTC AACCTTTATTTTCTAATTTTTTCAACATATTGTTTAGTGTAAAGAATATTTATT
 TGAAGTTTTATTATTTATAAAAAAGAATATTTATTTAAGAGGCATCTTACAAATTTTG
 CCCTTTTATGAGGATGTGATAGTTGCTGCAAATGAGGGTTACAGATGCATATGTCCAA
 TATAAAATAGAAAATATATTAACGTTTGA AATTAAAAA AAAAAAAAAAAAAAAAAAAAAA
 AA

Restriction Sites: Please inquire

ACCN: NM_005842

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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.
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:	<ol style="list-style-type: none"> 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_005842.2 , NP_005833.1
RefSeq Size:	2126 bp
RefSeq ORF:	948 bp
Locus ID:	10253
UniProt ID:	O43597
Cytogenetics:	13q31.1
Domains:	Sprouty
Protein Families:	Druggable Genome
Protein Pathways:	Jak-STAT signaling pathway
Gene Summary:	<p>This gene encodes a protein belonging to the sprouty family. The encoded protein contains a carboxyl-terminal cysteine-rich domain essential for the inhibitory activity on receptor tyrosine kinase signaling proteins and is required for growth factor stimulated translocation of the protein to membrane ruffles. In primary dermal endothelial cells this gene is transiently upregulated in response to fibroblast growth factor two. This protein is indirectly involved in the non-cell autonomous inhibitory effect on fibroblast growth factor two signaling. The protein interacts with Cas-Br-M (murine) ectropic retroviral transforming sequence, and can function as a bimodal regulator of epidermal growth factor receptor/mitogen-activated protein kinase signaling. This protein may play a role in alveoli branching during lung development as shown by a similar mouse protein. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript. Transcript variants 1-4 encode the same protein.</p>