

## Product datasheet for **RG222860**

### Sprouty 1 (SPRY1) (NM\_199327) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sprouty 1 (SPRY1) (NM_199327) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sprouty 1
Synonyms:	hSPRY1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222860 representing NM_199327 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCCCCAAAATCAACATGGCAGTGGCAGTTCGTTAGTTGTGATCCAGCAGCCTTCTTTGGATAGCC  
GTCAGAGATTAGACTATGAGAGAGAGATTCAGCCTACTGCTATTTTGTCTTAGACCAGATCAAGGCCAT  
AAGAGGCAGCAATGAATACACAGAAGGGCCTTCGGTGGTAAAAGACCTGCTCCTCGGACAGCACCAAGA  
CAAGAAAAGCATGAAAGGACTCATGAAATCATACCAATTAATGTGAATAATAACTACGAGCACAGACACA  
CAAGCCACCTGGGACATGCAGTACTCCCAAGTAATGCCAGGGGCCCATTTTGTAGCAGATCAACCAGCAC  
TGGAAAGTGCAGCCAGCTCTGGGAGCAACAGCAGTGCCTCTCTGAACAGGGACTGTTAGGAAGGTCACCA  
CCAACCAGACCAGTCCCTGGTCATAGGTCTGAAAGGGCAATCCGGACCCAGCCCAAGCAACTGATTGTGG  
ATGACTTGAAGGGTTCCTTGAAGAGGACCTGACACAGCAAGTTCAATTTGTGAACAGTGTGGGAAGTG  
CAAGTGTGGAGAATGCACTGCTCCAGGACCCTACCATCCTGTTTGGCCTGTAACCGGCAGTGCCTTTGC  
TCTGCTGAGAGCATGGTGAATATGGAACCTGCATGTGCTTAGTCAAGGGCATCTTCTACCACTGCTCCA  
ATGACGACGAAGGGGATTCCTATTCAGATAATCCTTGCTCCTGTTCAATCACACTGCTGCTCTAGATA  
CCTGTGTATGGGAGCCATGTCTTTATTTTTACCTTGCTTACTCTGTTATCCTCCTGCTAAGGATGCCTG  
AAGCTGTGCAGGAGGTGTTATGACTGGATCCATCGCCAGGGTGCAGATGTAAGAACTCCAACACTGTCT  
ATTGTAAGCTGGAGAGCTGCCCTCCCGGGTCAAGGTAACCATCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222860 representing NM\_199327  
 Red=Cloning site Green=Tags(s)

MDPQNQHSGSSLVVIQQPSLDSRQLDYEREIQPTAILSLDQIKAIRGSNEYTEGPSVVKRPAPRTAPR  
 QEKHERTHEIIPINVNNNYEHRHTSHLGHAVLPSNARGPILSRSTSTGSAASSGSNSSASSEQGLLGRSP  
 PTRPVPGHRSERAIARTQPKQLIVDDLKGLKEDLTQHKFICEQCGKCKGECTAPRTLPSCLACNRQCLC  
 SAESMVEYGTCMCLVKGI FYHCSNDDEGDSYSDNPCSCSCSQSHCCSRYLCMGAMSLFLPCLLCYPPAKGCL  
 KLCRRCYDWIHRPGCRCKNSNTVYCKLESCPSRQGKPS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_199327

**ORF Size:** 957 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\\_199327.3](#)

**RefSeq Size:** 2349 bp

**RefSeq ORF:** 960 bp

**Locus ID:** 10252

**UniProt ID:** [O43609](#)

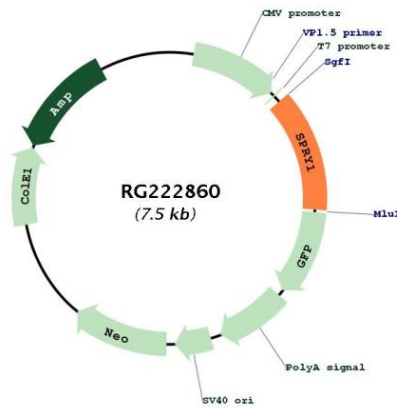
**Cytogenetics:** 4q28.1

**Protein Families:** Druggable Genome

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

**Gene Summary:** May function as an antagonist of fibroblast growth factor (FGF) pathways and may negatively modulate respiratory organogenesis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG222860