

## Product datasheet for **RG232471**

### Sprouty 1 (SPRY1) (NM\_001258039) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sprouty 1 (SPRY1) (NM_001258039) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPRY1
Synonyms:	hSPRY1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232471 representing NM_001258039 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCCCCAAAATCAACATGGCAGTGGCAGTTCGTTAGTTGTGATCCAGCAGCCTTCTTTGGATAGCC  
GTCAGAGATTAGACTATGAGAGAGAGATTCAGCCTACTGCTATTTTGTCTTAGACCAGATCAAGGCCAT  
AAGAGGCAGCAATGAATACACAGAAGGGCCTTCGGTGGTAAAAGACCTGCTCCTCGGACAGCACCAAGA  
CAAGAAAAGCATGAAAGGACTCATGAAATCATACCAATTAATGTGAATAAATACTACGAGCACAGACACA  
CAAGCCACCTGGGACATGCAGTACTCCCAAGTAATGCCAGGGGCCCATTTTGAGCAGATCAACCAGCAC  
TGGAAAGTGAGCCAGCTCTGGGAGCAACAGCAGTGCCTCTCTGAACAGGGACTGTTAGGAAGGTCACCA  
CCAACCAGACCAGTCCCTGGTCAATAGGTCTGAAAGGGCAATCCGGACCCAGCCCAAGCAACTGATTGTGG  
ATGACTTGAAGGGTTCCTTGAAGAGGACCTGACACAGCACAAGTTCAATTTGTGAACAGTGTGGGAAGTG  
CAAGTGTGGAGAATGCACTGCTCCAGGACCCTACCATCTGTTTGGCCTGTAACCGGCAGTGCCTTTGC  
TCTGCTGAGAGCATGGTGAATATGGAACCTGCATGTGCTTAGTCAAGGGCATCTTCTACCACTGCTCCA  
ATGACGACGAAGGGGATTCCTATTCAGATAATCCTTGCTCCTGTTCAATCACACTGCTGCTCTAGATA  
CCTGTGTATGGGAGCCATGTCTTTATTTTTACCTTGCTTACTCTGTTATCCTCCTGCTAAGGATGCCTG  
AAGCTGTGCAGGAGGTGTTATGACTGGATCCATCGCCAGGGTGCAGATGTAAGAACTCCAACACTGTCT  
ATTGTAAGCTGGAGAGCTGCCCTCCCGGGTCAAGGTAACCATCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232471 representing NM\_001258039  
 Red=Cloning site Green=Tags(s)

MDPQNQHSGSSLVVIQQPSLDSRQRLDYEREIQPTAILSLDQIKAIRGSNEYTEGPSVVKRPAPRTAPR  
 QEKHERTHEIIPINVNNNYEHRHTSHLGHAVLPSNARGPILSRSTSTGSAASSGSNSSASSEQGLLGRSP  
 PTRPVPGHRSERAIARTQPKQLIVDDLKGLKEDLTQHKFICEQCGKCKGECTAPRTLPSCLACNRQCLC  
 SAESMVEYGTMCMLVKGI FYHCSNDDEGDSYSDNPNPCSCSQSHCCSRYLFCMGAMSLFLPCLLCYPPAKGCL  
 KLCRRCYDWIHRPGCRCKNSNTVYCKLESCPSRGQGKPS

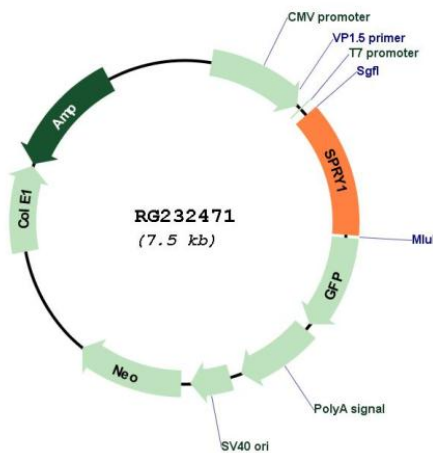
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001258039

**ORF Size:** 957 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001258039.1</a> , <a href="#">NP_001244968.1</a>
<b>RefSeq Size:</b>	2370 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	10252
<b>UniProt ID:</b>	<a href="#">O43609</a>
<b>Cytogenetics:</b>	4q28.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Jak-STAT signaling pathway
<b>Gene Summary:</b>	May function as an antagonist of fibroblast growth factor (FGF) pathways and may negatively modulate respiratory organogenesis.[UniProtKB/Swiss-Prot Function]