

Product datasheet for **RG209581**

Sprouty 1 (SPRY1) (NM_005841) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sprouty 1 (SPRY1) (NM_005841) 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:	>RG209581 representing NM_005841 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCCCAAAATCAACATGGCAGTGGCAGTTCGTTAGTTGTGATCCAGCAGCCTTCTTTGGATAGCC
GTCAGAGATTAGACTATGAGAGAGAGATTCAGCCTACTGCTATTTTGTCTTAGACCAGATCAAGGCCAT
AAGAGGCAGCAATGAATACACAGAAGGGCCTTCGGTGGTAAAAGACCTGCTCCTCGGACAGCACCAAGA
CAAGAAAAGCATGAAAGGACTCATGAAATCATACCAATTAATGTGAATAATAACTACGAGCACAGACACA
CAAGCCACCTGGGACATGCAGTACTCCCAAGTAATGCCAGGGGCCCATTTTGAGCAGATCAACCAGCAC
TGGAAAGTGCAGCCAGCTCTGGGAGCAACAGCAGTGCCTCTCTGAACAGGGACTGTTAGGAAGGTCACCA
CCAACCAGACCAGTCCCTGGTCATAGGTCTGAAAGGGCAATCCGGACCCAGCCCAAGCAACTGATTGTGG
ATGACTTGAAGGGTTCCTTAAAAGAGGACCTGACACAGCAAGTTCAATTTGTGAACAGTGTGGGAAGTG
CAAGTGTGGAGAATGCACTGCTCCAGGACCCTACCATCCTGTTGGCCTGTAACCGGCAGTGCCTTTGC
TCTGCTGAGAGCATGGTGAATATGGAACCTGCATGTGCTTAGTCAAGGGCATCTTCTACCACTGCTCCA
ATGACGACGAAGGGGATTCCTATTCAGATAATCCTTGCTCCTGTTCAATCACACTGCTGCTCTAGATA
CCTGTGTATGGGAGCCATGTCTTTATTTTTACCTTGCTTACTCTGTTATCCTCCTGCTAAAGGATGCCTG
AAGCTGTGCAGGAGGTGTTATGACTGGATCCATCGCCAGGGTGCAGATGTAAGAACTCCAACACTGTCT
ATTGTAAGCTGGAGAGCTGCCCTCCCGGGTCAAGGTAACCATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209581 representing NM_005841
 Red=Cloning site Green=Tags(s)

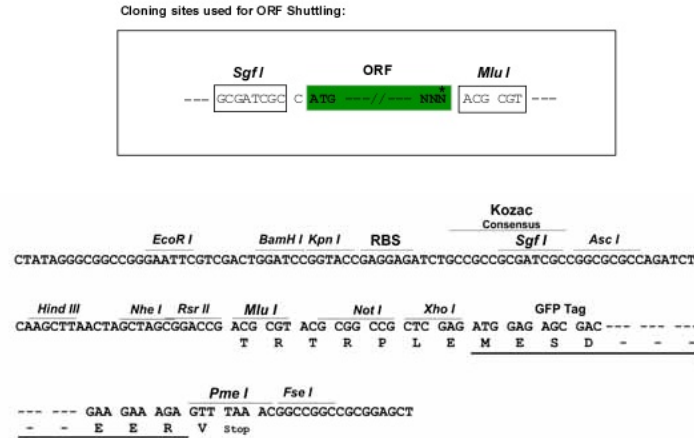
MDPQNQHSGSSLVVIQQPSLDSRQRLDYEREIQPTAILSLDQIKAIRGSNEYTEGPSVVKRPAPRTAPR
 QEKHERTHEIIPINVNNNYEHRHTSHLGHAVLPSNARGPILSRSTSTGSAASSGSNSASSEQLLGRSP
 PTRPVPGHRSERAIARTQPKQLIVDDLKGLKEDLTQHKFICEQCGKCKGECTAPRTLPSCLACNRQCLC
 SAESMVEYGTMCMLVKGI FYHCSNDDEGDSYSDNPNPCSCSQSHCCSRYLFCMGAMSLFLPCLLCYPPAKGCL
 KLCRRCYDWIHRPGCRCKNSNTVYCKLESCPSRGQGKPS

TRTRPLE - GFP Tag - V

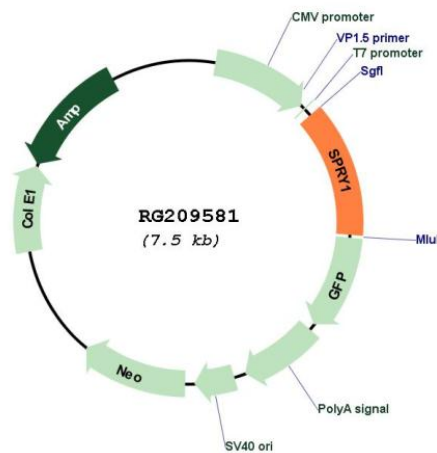
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_005841

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:	<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_005841.3
RefSeq Size:	2612 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]