

Product datasheet for RC232470

Sprouty 1 (SPRY1) (NM_001258038) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sprouty 1 (SPRY1) (NM_001258038) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sprouty 1
Synonyms:	hSPRY1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC232470 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCCCAAATCAACATGGCAGTGGCAGTTCGTTAGTTGTGATCCAGCAGCCTTCTTTGGATAGCC
GTCAGAGATTAGACTATGAGAGAGAGATTAGCCTACTGCTATTTTGTCTTAGACCAGATCAAGGCCAT
AAGAGGCAGCAATGAATACACAGAAGGGCCTTCGGTGGTAAAAGACCTGCTCCTCGGACAGCACCAAGA
CAAGAAAAGCATGAAAGGACTCATGAAATCATACCAATTAATGTGAATAAATACTACGAGCACAGACACA
CAAGCCACCTGGGACATGCAGTACTCCAAGTAATGCCAGGGGCCCATTTTGGAGCAGATCAACCAGCAC
TGGAAAGTGCAGCCAGCTCTGGGAGCAACAGCAGTGCCTCTCTGAACAGGGACTGTTAGGAAGGTCACCA
CCAACCAGACCAGTCCCTGGTCAATAGGTCTGAAAGGGCAATCCGGACCCAGCCCAAGCAACTGATTGTGG
ATGACTTGAAGGGTTCCTTGAAGAGGACCTGACACAGCAAGTTCAATTTGTGAACAGTGTGGGAAGTG
CAAGTGTGGAGAATGCACTGCTCCAGGACCCTACCATCCTGTTGGCCTGTAACCGGCAGTGCCTTTGC
TCTGCTGAGAGCATGGTGAATATGGAACCTGCATGTGCTTAGTCAAGGGCATCTTCTACCACTGCTCCA
ATGACGACGAAGGGGATTCCTATTCAGATAATCCTTGCTCCTGTTCAATCACACTGCTGCTCTAGATA
CCTGTGTATGGGAGCCATGTCTTTATTTTACCTTGCTTACTCTGTTATCCTCCTGCTAAAGGATGCCTG
AAGCTGTGCAGGAGGTGTTATGACTGGATCCATCGCCAGGGTGCAGATGTAAGAACTCCAACACTGTCT
ATTGTAAGCTGGAGAGCTGCCCTCCCGGGTCAAGGTAACCATCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232470 protein sequence
 Red=Cloning site Green=Tags(s)

MDPQNQHGGSSLVVIQQPSLDSRQLDYEREIQPTAILSLDQIKAIRGSNEYTEGPSVVKRPAPRTAPR
 QEKHERTHEIIPINVNNNYEHRHTSHLGHAVLPSNARGPILSRSTSTGSAASSGSNSSASSEQGLLGRSP
 PTRPVPGHRSERAIARTQPKQLIVDDLKGLKEDLTQHKFICEQCGKCKGECTAPRTLPSCLACNRQCLC
 SAESMVEYGTMCMLVKGIFYHCSNDDEGDSYSDNPCSCSQSHCCSRYLCMGAMSLFLPCLLCYPPAKGCL
 KLCRRCYDWIHRPGCRCKNSNTVYCKLESCPSRGQGKPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6363_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001258038

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_001258038.2](#)

RefSeq Size: 2626 bp

RefSeq ORF: 960 bp

Locus ID: 10252

UniProt ID: [O43609](#)

Cytogenetics: 4q28.1

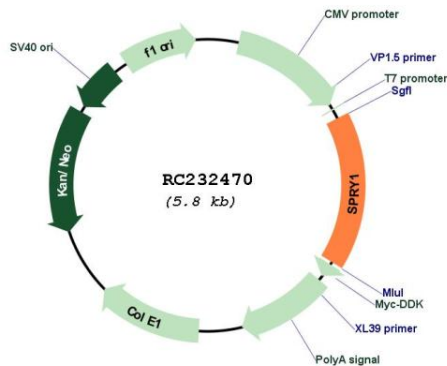
Protein Families: Druggable Genome

Protein Pathways: Jak-STAT signaling pathway

MW: 35.1 kDa

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 RC232470