

Product datasheet for RC210164

Sprouty 3 (SPRY3) (NM_005840) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sprouty 3 (SPRY3) (NM_005840) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sprouty 3
Synonyms:	spry-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210164 representing NM_005840 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGCTGCGGTGACAGATGATTTTCAACAAATTCTGCCTATTGAACAGCTGCGCTCTACTCATGCTA
GCAATGACTACGTGGAACGGCCTCCAGCCCCGTAAACAGGCCCTCTCCAGCCCTCCCTTATTGTGCA
AACCCACAAGTCTGATTGGTCTCTGGCTACCATGCCTACTTCTCTCCCCGCAGTCTCAGCCAGTGCCAT
CAACTGCAGCCCTTGCCCTCAGCATCTGAGCCAATCTAGCATTGCCAGCTCAATGTCCCATAGCACCCTG
CCTCTGATCAAAGGCTCTTGCCAGCATTACACCCTCACCTTCAGGCCAATCCATCATCCGAACCCAACC
TGGAGCAGGGTCCACCCAAAGGCTGATGGTGCTCTGAAGGGAGAAGCTGAGCAATCTGCAGGGCACCCCT
AGTGAGCACCTTTCATCTGTGAGGAATGTGGGCGCTGCAAGTGCCTCCCTGCACAGCAGCTCGCCCTC
TCCCTCTGTGGCTGTGCAACCAGCGCTGCCTTTGCTCTGCTGAGAGCCTCCTCGATTATGGCACTTG
TCTCTGTGTGCAAGGGCCTCTTACCCTGCTCCACTGATGATGAAGACAACGTGCTGATGAGCCC
TGCTCTTGTGGGCTAGTTCTTGTCTTGTCCGCTGGCAGCCATGAGCCTCATCTCCCTCTTCTACCCT
GCCTGTGCTGCTACCTGCCTACCCGTGGATGCCTCCATCTGTGCCAACAGGGCTATGATAGCCTCCGGCG
ACCAGGCTGCCGCTGCAAGAGGCACACCAACACTGTGTGCAGAAAGATCTCTTCTGGTAGTCACCCCTTC
CCAAGGCCAGGAAAAGTCTGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210164 representing NM_005840
Red=Cloning site Green=Tags(s)

MDAAVTDDFQQILPIEQLRSTHASNDYVERPPAPCKQALSSPSLIVQTHKSDWSLATMPTSLPRSLSQCH
 QLQLPQHLSSQSIASSMSHSTTASDQRLLASITPSPSGQSIIRTQPGAGVHPKADGALKGEAEQSAGHP
 SEHLFICEECGRCKCVPCTAARPLPSCWLCNQRLCSAESLLDYGTCLCCVKGLFYHCSTDDENCADEP
 CSCGPSSCFVRWAAMSLISLFLPCLCCYLPTRGCLHLCQQGYDSLRRPGCRCKRHTNTVCRKISSGSAPF
 PKAQEKSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3202_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005840

ORF Size: 864 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_005840.2](#)

RefSeq Size: 9038 bp

RefSeq ORF: 867 bp

Locus ID: 10251

UniProt ID: [O43610](#)

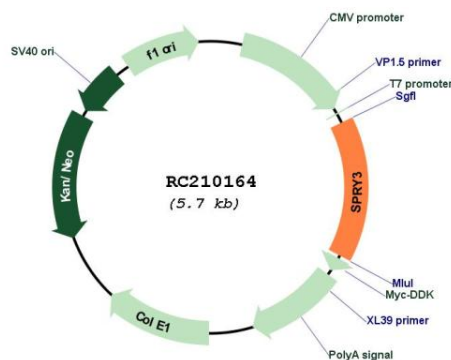
Cytogenetics: Xq28 and Yq12

Protein Pathways: Jak-STAT signaling pathway

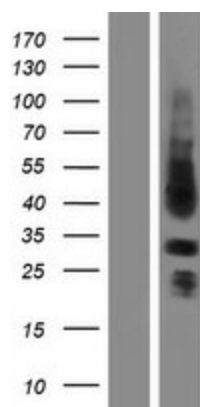
MW: 31 kDa

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 RC210164



Western blot validation of overexpression lysate (Cat# [LY417019]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210164 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).