

### **OriGene Technologies, Inc.**

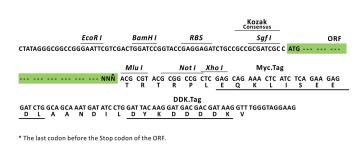
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for RC204864L3

# Sprouty 2 (SPRY2) (NM\_005842) Human Tagged Lenti ORF Clone

# **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sprouty 2 (SPRY2) (NM_005842) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Sprouty 2
Synonyms:	hSPRY2; IGAN3
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204864).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgfi ORF Miui



--- GCG ATC GC ATG --- // --- NNN ACG CGT ---

ACCN: ORF Size: NM\_005842 945 bp



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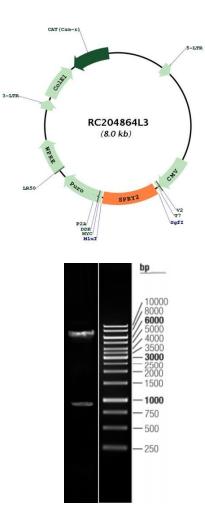
	uty 2 (SPRY2) (NM_005842) Human Tagged Lenti ORF Clone – RC204864L3
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 005842.2</u>
RefSeq Size:	2126 bp
RefSeq ORF:	948 bp
Locus ID:	10253
UniProt ID:	<u>043597</u>
Cytogenetics:	13q31.1
Domains:	Sprouty
Protein Families:	Druggable Genome
Protein Pathways:	Jak-STAT signaling pathway
MW:	34.7 kDa

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### Sprouty 2 (SPRY2) (NM\_005842) Human Tagged Lenti ORF Clone – RC204864L3

# Gene Summary:This gene encodes a protein belonging to the sprouty family. The encoded protein contains a<br/>carboxyl-terminal cysteine-rich domain essential for the inhibitory activity on receptor<br/>tyrosine kinase signaling proteins and is required for growth factor stimulated translocation<br/>of the protein to membrane ruffles. In primary dermal endothelial cells this gene is<br/>transiently upregulated in response to fibroblast growth factor two. This protein is indirectly<br/>involved in the non-cell autonomous inhibitory effect on fibroblast growth factor two<br/>signaling. The protein interacts with Cas-Br-M (murine) ectropic retroviral transforming<br/>sequence, and can function as a bimodal regulator of epidermal growth factor<br/>receptor/mitogen-activated protein kinase signaling. This protein may play a role in alveoli<br/>branching during lung development as shown by a similar mouse protein. [provided by<br/>RefSeq, Jul 2008]

### **Product images:**



Circular map for RC204864L3

Double digestion of RC204864L3 using Sgfl and Mlul

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