

## Product datasheet for **MC213021**

### Spry3 (NM\_001030293) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Spry3 (NM\_001030293) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Spry3  
**Synonyms:** Gm391; Gm1409; sprouty3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC213021 representing NM\_001030293  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGATGCCACAGTGATAGATGAGCTCCAACAAATTCTGCCTATTGAACAGCTGCGCTCTACTCACGCTA  
GCAATGATTATGTGGAACGGCTCCAGCACCTGTAACAAGCTCTTTCTAGCCCTCCCTCATTGTGCA  
AACCCACAAATCTGATTGGTCCCTGGCTACCATGCCTACTGCTCTCCACGCAGTATCAGCCAGTGCCAT  
CAGCTGCAGCCCTGCCTCAGCATCTGAGCCAGTCTAGTATTTCCAGCTCAATGTCCCAAAGCACCACTG  
CCTCTGATCAAAGGCTCTTGCCAGCATTACACCTCTCCTTCAGGCCAGTCCATCATCAGAACCAGCC  
TGGAGCAGGGGCCACCCAAAGGTGATGGTGCTCTGAAGGGAGAAGCTGAGCAATCTGTAGGGCATTCC  
AGTGATCACCTCTTATCTGCGAGGAGTGTGGCGCTGCAAGTGTGTCCCTTGACAGCGGTTCCGCCCTC  
TGCCCTCTGTGGATGTGCAACCAGCGTTGCCTTTGCTCTGCTGAGAGCCTCCTTGATTATGGCACTTG  
CCTCTGCTGTGCAAGGGCTCTTCTACCACTGTTCCACTGATGATGAAGACAACCTGCGCTGATGAGCCC  
TGCTCCTGTGGCCTAGCTCTTGCTTCAATCGCTGGCAGCCATGAGTCTCATCTCCCTTTCTTACCCT  
GCCTGTGCTGCTACCTGCCTACAGTGGATGCCTCCATATGTGCCAGCAGGGCTATGATAGCCTCCGTCG  
ACCAGGCTGCCGCTGTAAGAGGCACACCAACACTGTGTGCAGAAAAATCTTTCTAGCAGTTCACCCCTTC  
CCCAAGGCGCAAGAAAAGTCTGTATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001030293  
**Insert Size:** 867 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_001030293.2</a> , <a href="#">NP_001025464.1</a>
<b>RefSeq Size:</b>	4542 bp
<b>RefSeq ORF:</b>	867 bp
<b>Locus ID:</b>	236576
<b>UniProt ID:</b>	<a href="#">Q3UUD2</a>
<b>Cytogenetics:</b>	X
<b>Gene Summary:</b>	Inhibits neurite branching, arbor length and neurite complexity (PubMed:26089202). Inhibits EGF-mediated p42/44 ERK signaling (PubMed:16877379). Negatively regulates the MAPK cascade, resulting in a reduction of extracellular matrix protein accumulation (By similarity). May function as an antagonist of fibroblast growth factor (FGF) pathways and may negatively modulate respiratory organogenesis (By similarity).[UniProtKB/Swiss-Prot Function]