

Product datasheet for **MG226937**

Spry2 (NM_011897) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spry2 (NM_011897) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spry2
Synonyms:	sprouty2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226937 representing NM_011897 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCCAGAGCTCAGAGTGGCAACGGGTCGCAGCCTTTGCTGCAGACAGCCCATGACAGTGGCAGGC
AGCGCGGGGAGCCGGATCCAAGAGATGCCCTTACCCAGCAGGTACACGTCTTGTCTCTGGATCAGATCAG
AGCCATCCGAAACACCAATGAGTACACAGAGGGCCCTACTGTGGTCCCAAGACCTGGGCTCAAGCCTGCT
CCTCGCCCCTCCACTCAGCACAAACATGAAAGACTCCACGGTCTGCCGGAGCACC GCCAGCCTCCCAGGC
TCCAGCCCTCGCAGGTCCATTCTCACGGGCCCTCTGTCCAGGTCCATCAGCACTGTCAGCTCAGGGTC
TCGGAGCAGTACAAGGACAAGTACCAGCAGCAGCTCCTCGGAACAGAGACTGTTAGGACCGTCTCTCC
CACGGGCTGCTGCTGATGGAATAATCCGAGTGCAGCCTAAATCGGAGCTCAAGCCTGGTGACGTAA
AGCCACTGAGCAAGGATGATTTGGGTCTGCATGCCTACAGGTGTGAGGACTGCGGCAAGTGAAGTGAA
GGAGTGCACCTACCCGAGGCCCTGCCGTCCGACTGGATCTGTGACAAGCAGTGCCTCTGCTCAGCCAG
AACGTCATTGACTATGGGACTTGTGTGCTGTGTGAAAGGTCTTTCTATCACTGCTCCAATGACGATG
AGGACAATTGTGCTGACAACCCGTGCTCTTGCAGCCAGTCCCATTGTTGTACGCGATGGTCAGCGATGGG
AGTCATGTCTCTTTTTGCCTTGTTATGGTGTACCTCCAGCCAAGGTTGCCTTAAATTGTGCCAG
GGGTGTTATGACCGAGTGAACAGGCCGGTGTGCTGTTGAAAACTCAAATACAGTTTGTGCAAAGTTC
CCACTGTCCCCCTAGGAACCTTTGAAAAGCCGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226937 representing NM_011897
Red=Cloning site Green=Tags(s)

```
MEARAQSGNGSQPLLQTAHDSGRQRGEPDPRDALTQQVHVLSLDQIRAIRNTNEYTEGPTVVPRPGLKPA
PRPSTQHKHERLHGLPEHRQPRLQPSQVHSSRAPLSRSISTVSSGSRSTRSTSTSSSQRLLGPSFS
HGPAAADGIIRVQPKSELKPGDVKPLSKDDLGLHAYRCEDCGKCKCKECTYPRPLPSDWICDKQCLCSAQ
NVIDYGTVCVCKGLFYHCSNDDNDCADNPSCSCSQSHCCTRSWAMGVMSLFLPCLWCYLPKAGCLKLCQ
GCYDRVNRPGCRCKNSNTVCCKVPTVPPRNF EKPT
```

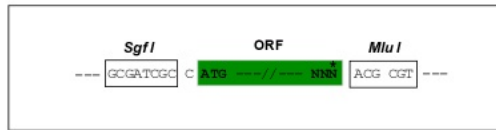
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2393_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_011897

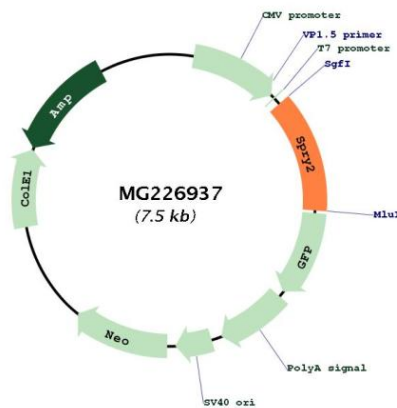
ORF Size: 945 bp

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 custsupport@origene.com 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. [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:	<u>NM_011897.3</u> , <u>NP_036027.1</u>
RefSeq Size:	2103 bp
RefSeq ORF:	948 bp
Locus ID:	24064
UniProt ID:	<u>Q9QXV8</u>
Cytogenetics:	14 56.16 cM
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 MG226937