

Product datasheet for **RG225417**

Sprouty 4 (SPRY4) (NM_001127496) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sprouty 4 (SPRY4) (NM_001127496) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SPRY4
Synonyms: HH17
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225417 representing NM_001127496
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCCCGATCCCACAGAGCGCCCCCTTGACTCCCAACTCAGTCATGGTCCAGCCCCCTTCTTGACA
GCCGGATGTCCCACAGCCGGCTCCAGCACCCACTCACCATCTACCCATTGACCAGGTGAAGACCAGCCA
TGTGGAGAATGACTACATAGACAACCCTAGCCTGGCCCTGACCACCGCCAAAGCGGACCCGGGGCGGG
GCCCCAGAGCTGGCCCCGACGCCCGCCGCTGTGACCAGGATGTCACCCACCATTGGATCTCCTTCAGCG
GGCGCCCCAGCTCTGTGAGCAGCAGCAGCAGCACATCCTCTGACCAACGGCTCTTAGACCACATGGCACC
ACCACCCGTGGCTGACCAGGCCCTACCAAGGGCTGTGCGCATCCAGCCAAAGGTGGTCCACTGCCAGCCG
CTGGACCTCAAGGGCCCCGGCGTCCCACCCGAGCTGGACAAGCACTTCTTGTGTGCGAGGCCTGTGGGA
AGTGTAATGCAAGGAGTGTGCATCCCCCGGACGTTGCCTTCTGCTGGGTCTGCAACCAGGAGTGCCT
GTGCTCAGCCCAGACTCTGGTCAACTATGGCACGTGCATGTGTTTGGTGCAGGGCATCTTCTACCACTGC
ACGAATGAGGACGATGAGGGCTCCTGCGCTGACCACCCCTGCTCCTGCTCCCGCTCCAACGTGCGCCC
GCTGGTCTTCATGGGTGCTCTCTCCGTGGTGTGCCCTGCCCTGCTGCTACCTGCCTGCCACCCGGCTG
CGTGAAGCTGGCCAGCGTGGCTACGACCGTCTGCGCCGCCCTGGTTGCCGCTGCAAGCACACGAACAGC
GTCATCTGCAAAGCAGCCAGCGGGATGCCAAGACCAGCAGGCCCGACAAGCCTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225417 representing NM_001127496
 Red=Cloning site Green=Tags(s)

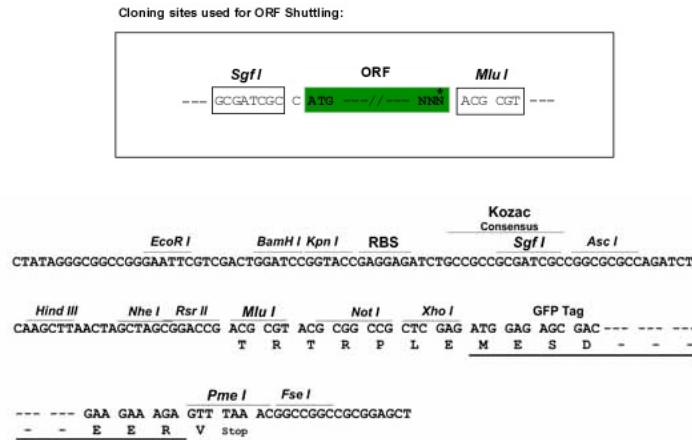
MEPPIPQSAPLTPNSVMVQPLLD SRMHSRLQHPLTILPIDQVKTSHVENDYIDNPSLALTTGPKRTRGG
 APELAPTPARCDQDVTHHWISFSGRPSSVSSSSSTSSDQRLLDHMAPPVADQASPRAVRIQPKVVHCQP
 LDLKGPVAPPELDKHFLLCEACGKCKCKEACASPTLPSCWVCNQECLCSAQTLVNYGTCMCLVQGIFYHC
 TNEDDEGSCADHPCSCSRSNCCARWSFMGALSVLPLCLLCYLPATGCVKLAQRGYDRLRRPGCRCKHTNS
 VICKAASGDAKTSRPDKPF

TRTRPLE - GFP Tag - V

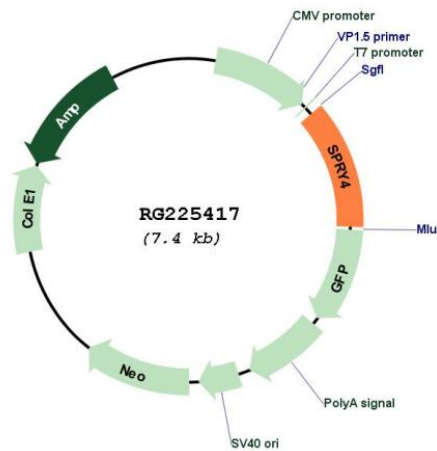
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001127496

ORF Size: 897 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:	<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:	NM_001127496.3
RefSeq Size:	4941 bp
RefSeq ORF:	900 bp
Locus ID:	81848
UniProt ID:	Q9C004
Cytogenetics:	5q31.3
Protein Pathways:	Jak-STAT signaling pathway
Gene Summary:	This gene encodes a member of a family of cysteine- and proline-rich proteins. The encoded protein is an inhibitor of the receptor-transduced mitogen-activated protein kinase (MAPK) signaling pathway. Activity of this protein impairs the formation of active GTP-RAS. Nucleotide variation in this gene has been associated with hypogonadotropic hypogonadism 17 with or without anosmia. Alternative splicing results in a multiple transcript variants. [provided by RefSeq, Jun 2014]