

Product datasheet for **SC322958**

Sprouty 4 (SPRY4) (NM_001127496) Human Untagged Clone

Product data:

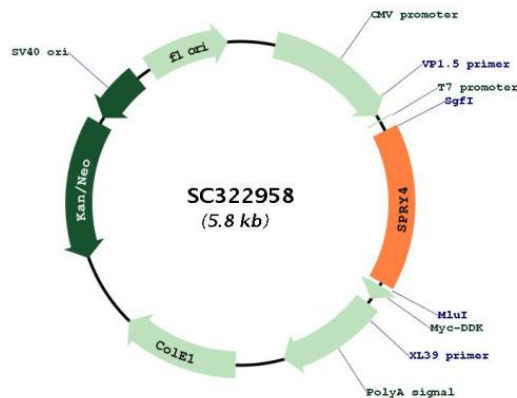
Product Type:	Expression Plasmids
Product Name:	Sprouty 4 (SPRY4) (NM_001127496) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPRY4
Synonyms:	HH17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC322958 representing NM_001127496. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGAGCCCCGATCCCACAGAGCGCCCCCTTGACTCCCAACTCAGTCATGGTCCAGCCCCTTCTTGAC
AGCCGGATGTCCACAGCCGGCTCCAGCACCCACTCACCATCCTACCCATTGACCAGGTGAAGACCAGC
CATGTGGAGAATGACTACATAGACAACCCTAGCCTGGCCCTGACCACCGCCCAAAGCGGACCCGGGGC
GGGGCCCCAGAGCTGGCCCCGACGCCCGCCGCTGTGACCAGGATGTACCCACCATTGGATCTCCTTC
AGCGGGCGCCCCAGCTCTGTGAGCAGCAGCAGCACATCCTCTGACCAACGGCTTTAGACCACATG
GCACCACCACCCGTGGCTGACCAGCCCTACCAAGGGCTGTGCGCATCCAGCCCAAGGTGGTCCACTGC
CAGCCGCTGGACCTCAAGGGCCCGCGGTCCCACCCGAGCTGGACAAGCACTTCTTGCTGTGCGAGGCC
TGTGGGAAGTGTAAATGCAAGGAGTGTGCATCCCCCGGACGTTGCCTTCTGCTGGGTCTGCAACCAG
GAGTGCCTGTGCTCAGCCAGACTCTGGTCAACTATGGCACGTGCATGTGTTGGTGCAGGGCATCTTC
TACCACTGCACGAATGAGGACGATGAGGGCTCCTGCGCTGACCACCCCTGCTCCTGCTCCCGCTCCAAC
TGCTGCGCCCGCTGGTCTTCATGGGTGCTCTCCTCGTGGTGTGCCCTGCCTGCTGTACTGCTGCT
GCCACCGCTGCGTGAAGCTGGCCAGCGTGGCTACGACCGTCTGCGCCGCCCTGGTTGCCGCTGCAAG
CACACGAACAGCGTCATCTGCAAAGCAGCCAGCGGGATGCCAAGACCAGCAGCCCCACAAGCCTTTC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:


ACCN: NM_001127496

Insert Size: 900 bp

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001127496.1](#)

RefSeq Size: 4941 bp

RefSeq ORF: 900 bp

Locus ID: 81848

UniProt ID: [Q9C004](#)

Cytogenetics: 5q31.3

Protein Pathways: Jak-STAT signaling pathway

MW: 32.5 kDa

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]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1. Variants 2, 3, and 4 encode the same isoform (2).