

## Product datasheet for **RG212199**

### SPRED2 (NM\_181784) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPRED2 (NM_181784) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPRED2
Synonyms:	Spred-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212199 representing NM_181784 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCGAAGAAACACACCCAGACGATGACAGCTATATTGTGCGTGTCAAGGCTGTGGTTATGACCAGAG  
ATGACTCCAGCGGGGATGGTCCACAGGAAGGAGCGGGATCAGTCGCGTCGGGGTCTGTAAGGTCAT  
GCACCCGAAGGCAATGGACGAAGCGGCTTTCATCCATGGTGAACGACAGAAAGACAACTGGTGTA  
TTGGAATGCTATGTAAGAAAGGACTTGGTCTACACAAAGCCAATCCAACGTTTCATCACTGGAAGGTCG  
ATAATAGGAAGTTTGGACTTACTTTCCAAGCCCTGCTGATGCCGAGCCTTTGACAGGGGAGTAAGGAA  
AGCAATCGAAGACCTTATAGAAGTTCAACAACGTCATCTCCACCATCCATAATGAAGCTGAGCTTGGC  
GATGATGACGTTTTTACAACAGCTACAGACAGTCTTCTAATTCTCTCAGAAGAGAGAACCTACTC  
GGACAATCTCTCTCCCACATCCTGTGAGCACCAGGATTTATACCCTGGGCCACTCCACGACTCATA  
CCCCACAGACCACTATCACCTCGATCAGCCGATGCCAAGGCCCTACCGCCAGGTGAGCTTCCCGGACGAC  
GACGAGGAGATCGTGCGCATCAACCCCGGAGAAGATCTGGATGACGGGTACGAGGATTACCGGCACG  
CACCCGTCAGGGGCAAGTACCCGACCCCTCGGAGGACGCGGACTCCTCCTACGTGCGCTTCGCCAAGGG  
CGAGGTCCCAAGCATGACTACAACCTACCCTACGTGGACTCCTCAGACTTTGGCCTAGGCGAGGACCCC  
AAAGGCCGCGGGGACAGGTGATCAAGACGCAGCCCTCCGCGGCAAGTCGCGGCGCGGAAGGAGGACG  
GAGAGCGCTCGCGGTGCGTGTACTGCAGGACATGTTCAACCACGAGGAGAACCAGCGGGGCCACTGCCA  
GGACGCGCCGACTCCGTGAGAATTGCATCCGCGGGTGTGAGCTGCATGTGGTGCAGGACAGCATGCTC  
TATCACTGTATGTGCGACCCGAGGGAGACTATACAGACCCTTGCTCGTGCATACTAGCGACGAGAAGT  
TTTGCCTCCGGTGGATGGCTCTTATTGCCTTGTCTTCTGGCCCCCTGTATGTGCTGTTACCTGCCCT  
TCGGCCCTGCTACCACTGCGGAGTGTGTCAGGTGCTGTGGCGGAAGCACAAAGCGGCCGCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG212199 representing NM\_181784  
Red=Cloning site Green=Tags(s)

MTEETHPDDDSYIVRVKAVVMTRDDSSGGWFPQEGGGISRVGVCKVMHPEGNGRSGFLIHGERQKDKLVV  
 LECYVRKDLVYTKANPTFHHWKVDNRKFGTLTFQSPADARAFDRGVRKAIEDLIEGTTSSSTIHNEAELG  
 DDDVFTTATDSSSNSSQKREQPRTISSPTSCEHRIIYTLGHLHDSYPTDHYHLDQPMRPYRQVSPFDD  
 DEEIVRINPREKIWMGTGYEDYRHAPVRGKYDPSEDADSSYVRFKGEVPKHDYNYPYVDSDFGLGEDP  
 KGRGGSVIKTQPSRGKSRRRKEDGERSRCVYCRDMFNHEENRRGHCQDAPDSVRTCIIRRVSCMWCADSML  
 YHCMSDPEGDYTPCSCDTSDEKFCLRWMLIALSFLAPCMCCYLPLRACYHCGVMCRCCGGKHKAAA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_181784

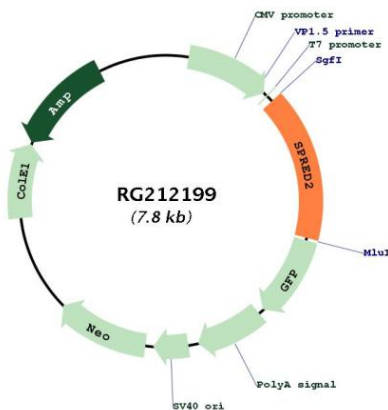
**ORF Size:** 1254 bp

**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](mailto: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.

<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>	<u>NM_181784.3</u>
<b>RefSeq Size:</b>	4119 bp
<b>RefSeq ORF:</b>	1257 bp
<b>Locus ID:</b>	200734
<b>UniProt ID:</b>	<u>Q7Z698</u>
<b>Cytogenetics:</b>	2p14
<b>Protein Pathways:</b>	Jak-STAT signaling pathway
<b>Gene Summary:</b>	SPRED2 is a member of the Sprouty (see SPRY1; MIM 602465)/SPRED family of proteins that regulate growth factor-induced activation of the MAP kinase cascade (see MAPK1; MIM 176948) (Nonami et al., 2004 [PubMed 15465815]).[supplied by OMIM, Mar 2008]

**Product images:**


Circular map for RG212199