

## Product datasheet for **SC101247**

### SPRED1 (NM\_152594) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPRED1 (NM_152594) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPRED1
Synonyms:	hSpred1; LGSS; NFLS; PPP1R147; spred-1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC101247 sequence for NM\_152594 edited (data generated by NextGen Sequencing)

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ATGAGCGAGGAGACGGCGACTTCTNNNNNGATAATAGTTATGCACGAGTGCGAGCTGTG
GTGATGACCCGAGATGACTCAAGTGGTGGATGGTTACCACTTGGAGGGAGTGACTAAGC
AGCGTCACTGTCTCAAAGTCCCTCATCAGGAAGAGAATGGCTGTGCTGACTTTTTTATC
CGTGGAGAGCGACTCAGGGACAAAATGGTGGTTTTGGAATGTATGCTTAAAAAAGACCTC
ATTTATAATAAGGTCCTCAACATTTCCACACTGGAAGATTGATGACAAAAAGTTTGGT
CTTACGTTTTCAAAGTCCCTGCTGATGCTAGGGCTTTTGGATAGAGGTATCCGAAGAGCTATA
GAGGATATTTCTCAAGGATGCCCGAATCAAAAAATGAAGCTGAAGGGGAGATGACTTA
CAAGCAAATGAAGAGGATTCTTCCAGTTCTCTAGTGAAGGATCACCTTTTTTCAGCAAGAG
ACAGTTGTTACCAGTGAGCCTTATAGAAGCTCAAATATAAGACCTTCTCCCTTTGAAGAT
CTGAATGCCAGAAGAGTCTACATGCAAAGCCAAGCCAATCAGATAACATTTGGTCAGCCA
GGCTTGGACATTCAGAGCAGAAGTATGGAATACGTACAGCGGCAAATATCCAAGGAATGT
GGAAGCCTAAAGTCCCAAAATAGGGTCCCTTTGAAATCAATCAGACATGCAGCTTTCAA
GATGAGGATGAGATTGTCAGAATAAACCTCGAGATATCTTAATACGTGCTATGCAGAC
TACAGACATCCTGACATGTGAAAAATGACTTGGAAAGAGATGATGCTGATTCCAGTATT
CAGTTTTCTAAACCAGACAGTAAAAATCAGACTATCTGTAAGTCTTGTGGGGATGAGACT
AAGTTAAGTTCACCCAAAGACTCTGTGGTATTTAAGACGCGAGCTTCTCATTAAAAATT
AAGAAGTCAAAACGAAGAAAAGAGGATGGTGAACGTTCTCGCTGCGTATACTGCCAGGAA
AGGTTTAAATCATGAAGAAAATGTCAGGGGAAAATGTCAGGATGCTCCAGACCCTATTTAA
AGATGCATATATCAAGTTAGTTGCATGCTCTGTGCAGAGAGCATGTTGTATCATTGTATG
TCAGACTCAGAGGGAGATTTTTCTGATCCCTGTTTCGTGTGACACTAGCGACGACAAGTTC
TGCTTGGATGGTTAGCCCTGGTAGCTTTGTCTTTCATTGTACCATGTATGTGCTGCTAC
GTCCCTTTGAGAATGTGCCATCGCTGTGGTGAGGCATGTGGTTGCTGTGGTGGAAACAT
AAAGCTGCTGGATGA
    
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Clone variation with respect to NM\_152594.2  
 25 g=>n;26 a=>n;27 c=>n;28 a=>n;29 a=>n;30 c=>n;291 g=>a;1044 t=>c

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_152594 unedited

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TTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCGGTGCTGCTGTTGCTCC
CCCGCCTGCTGTTGCTCCTCCATCTCCAGATCGGATCACGGTGAGGGAAAGATGAGCGAG
GAGACGGCGACTTCTGACAACGATAATAGTTATGCACGAGTGCGAGCTGTGGTATGACC
CGAGATGACTCAAGTGGTGGATGGTTACCACTTGGAGGGAGTGGACTAAGCAGCGTCACT
GTCTTCAAAGTCCCTCATCAGGAAGAGAATGGCTGTGCTGACTTTTTTATCCGTGGAGAG
CGACTCAGGGACAAAATGGTGGTTTTGGAATGTATGCTTAAAAAAGACCTCATTTATAAT
AAGGTCCTCAACATTTCCACACTGGAAGATTGATGACAAAAAGTTTGGTCTTACGTTT
CAAAGTCCCTGCTGATGCTAGGGCTTTTGGATAGAGGTATCCGAAGAGCTATAGAGGATATT
TCTCAAGGATGCCCGAATCAAAAAATGAAGCTGAAGGGGAGATGACTTACAAGCAAAT
GAAGAGGATTCTTCCAGTTCTCTAGTGAAGGATCACCTTTTTTCAGCAAGAGACAGTTGTT
ACCAGTGAGCCTTATAGAAGCTCAAATATAAGACCTTCTCCCTTTGAAGATCTGAATGCC
AGAAGAGTCTACATGCAAAGCCAAGCCAATCAGATAACATTTGGTCAGCCAGGCTTGGAC
ATTCAGAGCAGAAGTATGGAATACGTACAGCGGCAAATATCCAAGGGATGGTGGAAAGCC
TAAGTCCCAAATAAGGTCCTTTGAAATCATNAGACATGTGAGCTTTGATGAGGATGA
GATTGTCAGAATAACCTCGAGATATCTAATACGTGCTATGCAGACTCAGACATTCTGAC
ATGTGAAAAAGACT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_152594 unedited ATCTGTGNNACCGCGCCGCTATCTAGNATCGAGTTTTTTTTTTTTTTTCATCACCA TAGTTTTTAATGAAGAACTTGTAAAATTGTAAGGAAAAATGGGAATGGGACGGCA AAATCTTAGCAGCAAAGTGGTTAAACAAATTGAAAATTAATGCACAAACATTAATA TTAAGCATATATGTTGCATATAAAATACAGTACAGAACCAGGAGTTGCACTATACTGAT TAGTGTAAACAGAAGAAATGATTAATTTGTTCTCCAGAAATATACACAGTTCAT TTCCACAGCATTTCCTATATAGCCAGCAAGTTATTTTCTCAGTTATTCACACCTTGAT CAAACCTGAATTATAAACTTAGCACTTACAAATATGAAAATTCATTCACAAGAAAAACA GTATTTCCATTTACCAATAAAAAATTTGAAAAGTTAACAGTCTATTCTAGGAAACCAAGT TTAGCTGANAACCTCAGGGATGAAGATCATCTGTTGTAGCAGCATTCAAATATATAAACA GTAAAAATAAGACTTAAACTGCTGCCTACAGTGTGATGTTTTGGATTTAGTTCATCCAA TTGATTTTTAGTACAAACTAGAAATACCCTCTTCTTCAACATCTATAGTTATCAATA TATTTTCTCTTTCAATGTGAAATAATACTNTCAGATGATCTATACACAATGTTGTC AGTTCAAGCTGTCATATAATATAAATGCTTTTCTAAAAAAGTATTTACAGACAGTGGA TATACATTGGTCAGTTTGATCTGGGGCAAAGAAAAAGCTAACACAGCTTAAGTGTGAT ATATAAAAAGAATGATNCNTAAATGACGTTTAANAACCTGCAATAGAAATGAAGCTNCAA AAGTATTGTGATTTAAATTTTTATACACTCTGAACTTCAAGCATTAAAAAN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_152594
<b>Insert Size:</b>	4600 bp
<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_152594.1</a> , <a href="#">NP_689807.1</a>
<b>RefSeq Size:</b>	3816 bp
<b>RefSeq ORF:</b>	1335 bp
<b>Locus ID:</b>	161742
<b>UniProt ID:</b>	<a href="#">Q7Z699</a>
<b>Cytogenetics:</b>	15q14
<b>Domains:</b>	WH1
<b>Protein Pathways:</b>	Jak-STAT signaling pathway

**Gene Summary:**

The protein encoded by this gene is a member of the Sprouty family of proteins and is phosphorylated by tyrosine kinase in response to several growth factors. The encoded protein can act as a homodimer or as a heterodimer with SPRED2 to regulate activation of the MAP kinase cascade. Defects in this gene are a cause of neurofibromatosis type 1-like syndrome (NFLS). [provided by RefSeq, Jul 2008]