

## Product datasheet for **SC309681**

### SMURF1 (NM\_020429) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMURF1 (NM_020429) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMURF1
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:

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>OriGene ORF sequence for NM_020429 edited
ATGTGCAACCCCGGGACACGCAGGAACGGCTCCAGCATCAAGATCCGTCTGACAGTGTTA
TGTGCCAAGAACCTTGCAAAGAAAGACTTCTTCAGGCTCCCTGACCCCTTTGCAAAGATT
GTCGTGGATGGGTCTGGGCAGTGCCACTCAACCGACACTGTGAAAAACACATTGGACCCA
AAGTGGAAACCAGCACTATGATCTATATGTTGGGAAAACGGATTCGATAACCATTAGCGTG
TGGAAACATAAGAAAATTCACAAGAAAACAGGGAGCTGGCTTCTGGGCTGTGTGCGGCTG
CTCTCCAATGCCATCAGCAGATTAAGATACCGGATACCAGCGTTTGGATCTATGCAAA
CTAAACCCTCAGATACTGATGCAGTTCGTGGCCAGATAGTGGTCAGTTTACAGACACGA
GACAGAATAGGAACCGGGCGGCTCGGTGGTGGACTGCAGAGGACTGTTAGAAAATGAAGGA
ACGGTGTATGAAGACTCGGGGCTGGGAGGCGGCTCAGCTGCTTCATGGAGGAACAGCC
CCTTACACAGATAGCACCAGTGTGCTGCTGGAGGAGGGAATTGCAGGTTCTGGAGTCC
CCAAGTCAAGATCAAAGACTTCAGGCACAGCGGCTTCGAAACCCTGATGTGCGAGTTCA
CTACAGACGCCCCAGAACCGACCACACGGCCACCAGTCCCGGAACTGCCGAAGGCTAC
GAACAAAGAACAACAGTCCAGGGCCAAGTTTACTTTTTGCATACACAGACTGGAGTTAGC
ACGTGGCAGACCCAGGATACCAAGTCCCTCGGGGACCATTCTGGGGGAGATGCAGCT
TTTCTATACGAATTCCTTCTACAAGGCCATACATCTGAGCCAGAGACCTTAACAGTGTG
AACTGTGATGAACCTGGACCACTGCCGCCAGGCTGGGAAGTCAGAAGTACAGTTTCTGGG
AGGATATATTTGTAGATCATAATAACCGAACAACCCAGTTTACAGACCCAAGGTTACAC
CACATCATGAATCACCAGTGCCAACTCAAGGAGCCAGCCAGCCGCTGCCACTGCCCACT
GAGGGCTCTCTGGAGGACGAGGAGCTTCTGCCCAGAGATACGAAAGAGATCTAGTCCAG
AAGCTGAAAGTCTCAGACACGAACTGTCGCTTCAGCAGCCCCAAGCTGGTCATTGCCGC
ATCGAAGTGTCCAGAGAAGAAATCTTTGAGGAGTCTTACCGCCAGATAATGAAGATCGCA
CCGAAAGACTTGAAAAACGGCTGATGGTGAATTCCTGGGGAAGAAGTTTGGATTAC
GGTGGTGTGGCCAGGGAGTGGCTTTACTTGTGTCATGAAATGCTGAATCCTTATTAC
GGGCTCTTCCAGTATTCTACGGACAATTTTACATGTTGCAAATAAATCCGGATTCTTCA
ATCAACCCCGACCACTTGTCTTATTTCCACTTTGTGGGCGGATCATGGGGCTGGCTGTG
TTCCATGGACACTACATCAACGGGGGCTTACAGTGCCCTTCTACAAGCAGCTGCTGGGG
AAGCCCATCCAGCTCTCAGATCTGGAATCTGTGGACCCAGAGCTGCATAAGAGCTTGGTG
TGGATCCTAGAGAACGACATCACGCCTGTACTGGACCACACCTTCTGCGTGGAACACAAC
GCCTTCGGGCGGATCCTGCAGCATGAACTGAAACCCAATGGCAGAAATGTCCAGTCACA
GAGGAGAATAAGAAAGAATACGTCCGGTTGTATGTAACCTGGAGGTTTATGAGAGGAATC
GAAGCCAGTTCTTAGCTCTGCAGAAGGGTTCAATGAGCTCATCCCTCAACATCTGCTG
AAGCCTTTTGACCAGAAGGAACTGGAGCTGATCATAGGCGGCCTGGATAAAATAGACTTG
AACGACTGGAAGTCGAACACGCGGCTGAAGCACTGTGTGGCCGACAGCAACATCGTGGG
TGGTTCTGGCAAGCGGTGGAGACGTTTCGATGAAGAAAGGAGGGCCAGGCTCCTGCAGTTT
GTGACTGGGTCCACGCGAGTCCCGCTCCAAGGCTTCAAGGCTTTGCAAGTTCTACAGGC
GCGGCAGGGCCCCGGCTGTTACCATCCACCTGATAGACGCGAACACAGACAACCTCCG
AAGGCCATACCTGCTTTAACCGGATCGACATTCACCATATGAGTCCTATGAGAAGCTC
TACGAGAAGCTGCTGACAGCCGTGGAGGAGACCTGCGGGTTTGTGTGGAGTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_020429 unedited</p> <pre>GTTGCATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCGCTGGATCCG CGGCTGCCCGATCGTTGGCGGGAGATGTGCAACCCCGGACACGCAGGAACGGCTCCAGC ATCAAGATCCGCTGACAGTGTTATGTGCCAAGAACCTTGCAAAGAAAGACTTCTTCAGG CTCCCTGACCCTTTTGCAAAGATTGTCGTGGATGGGTCTGGGCAGTGCCACTCAACCGAC ACTGTGAAAAACACATTGGACCCAAAGTGAACCAGCACTATGATCTATATGTTGGGAAA ACGGATTCGATAACCATTAGCGTGTGGAACCATAAAGAAAATTCACAAGAAACAGGGAGCT GGCTTCCTGGGCTGTGTGCGGCTGCTCTCCAATGCCATCAGCAGATTAAGATACCGGA TACCAGCGTTTGGATCTATGCAAATAAACCCCTCAGATACTGATGCAGTTCGTGGCCAG ATAGTGGTCAGTTTACAGACACGAGACAGAATAGGAACCGGCGGCTCGGTGGTGGACTGC AGAGGACTGTTAGAAAATGAAGGAACGGTGTATGAAGACTCGGGGCTGGGAGGCCGCTC AGCTGCTTCATGGAGGAACCGCCCTTACACAGATAGCACCGGTGCTGCTGGAGGA GGGAATTGCAGGTTTCGTGGAGTCCCAAGTCAAGATCAAAGACTTCAGGCACAGCGGCTT CGAAACCTGATGTGCGAGGTTCACTACAGACGCCCCAAAACCCGACCACAGGCCACCA GTCCCCGGGACTGCCCGAAGGCTACGAACAAAGAACAACAGTCCAGGG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' genomic read for NM_020429 unedited</p> <pre>ATAGGAGATGGCAATTCAGGCCAGNAAAGCACTGGGGAGGGTACAGGTGCCCCGGGA TCTGTTAGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTT TTAAATGTAAGTCGTGAGTTTATTGCATATGTAACAAAATGAACCTGACCTCCTGGGCC CAGCCTGCTGTACAATCACTGTTTGTGTTTCCAGCTGGTCCATAACCACATTAA ATAGAAGTATTTTATTAAACTTTTTGATTTTGACATAGAACATTAGTGACAACCTT TCACAAAATAAATCAGTGATAAAAAACAGTGGGAAGGATAACAAGGATAGCAGCAACTT CAAAAACAAGACATTACAAAATAAATTAATAAATACGTTATAAAGTGGTTGAGAAACAAA ATAAACACATTTTTAAAATCCATACTATGTTTCGGGAANGCTGCCGTGTGGCACACACCT TGCTGCAATGGCGGGTGGGGGACATTTCTCTGAAAAAGCCTTTTCTGAATTTTCG GGTTTGGTGAACCCCTTAATCTGAAATGGGACCATACGTCGAAACAATCTTAGGGGG TTCCAAATTTCTTTTGGTTGGGCAAAAATTTTTTTTTTAAAAAATTTGAAAAAACCCCT TTTTTCGGGGCCCCCGGGCCTTCCAGGGGAGCCTCAAATTTTTTCTAAATTTAAAA AAACTCTTGGGGGAAGAGGGGGTTTAAACAACACCCCCCGGAGGATGGCGGGGCG</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_020429
<b>Insert Size:</b>	5500 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>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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).

**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\\_020429.1](#), [NP\\_065162.1](#)

**RefSeq Size:** 5737 bp

**RefSeq ORF:** 2274 bp

**Locus ID:** 57154

**UniProt ID:** [Q9HCE7](#)

**Cytogenetics:** 7q22.1

**Protein Families:** Druggable Genome

**Protein Pathways:** Endocytosis, TGF-beta signaling pathway, Ubiquitin mediated proteolysis

**Gene Summary:** This gene encodes a ubiquitin ligase that is specific for receptor-regulated SMAD proteins in the bone morphogenetic protein (BMP) pathway. This protein plays a key roll in the regulation of cell motility, cell signalling, and cell polarity. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Dec 2010]  
Transcript Variant: This variant (1) encodes the longer isoform (1) of this protein.