

## Product datasheet for **RC222902**

### SMURF1 (NM\_020429) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMURF1 (NM_020429) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SMURF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC222902 representing NM\_020429  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGTCGAACCCCGGGACACGCAGGAACGGCTCCAGCATCAAGATCCGTCTGACAGTGTTATGTGCCAAGA  
ACCTTGCAAAGAAAGACTTCTTCAGGCTCCCTGACCCCTTTTGCAAAGATTGTCGTGGATGGGTCTGGGCA  
GTGCCACTCAACCGACTGTGAAAAACACATTGGACCCAAAGTGAACACGACTATGATCTATATGTT  
GGGAAAACGGATTTCGATAACCATAGCGTGTGGAACATAAGAAAATTCACAAGAAAACAGGGAGCTGGCT  
TCCTGGGTGTGTGCGGCTGCTCTCCAATGCCATCAGCAGATTAAGATACCGGATACCGAGCTTTGGA  
TCTATGCAAACAAACCCCTCAGATACTGATGCAGTTCGTGGCCAGATAGTGGTCAGTTTACAGACACGA  
GACAGAATAGGAACCGCGGCTCGGTGGTGGACTGCAGAGGACTGTTAGAAAATGAAGGAACGGTGTATG  
AAGACTCGGGCCTGGGAGGCCGCTCAGCTGCTTCATGGAGGAACCGCCCTTACACAGATAGCACCGG  
TGCTGCTGCTGGAGGAGGAATTGCAGGTTTCGTGGAGTCCCAAGTCAAGATCAAAGACTTCAGGCACAG  
CGGCTTCGAAACCTGATGTGCGAGTTCACTACAGACGCCCCAGAACCGACCACACGGCCACCAGTCCC  
CGAACTGCCCGAAGGCTACGAACAAAGAACACAGTCCAGGGCCAAGTTTACTTTTTGCATACACAGAC  
TGGAGTTAGCACGTGGCAGACCCAGGATACCAAGTCCCTCGGGGACCATTCCTGGGGGAGATGCAGCT  
TTTCTATACGAATTCCTTCTACAAGGCCATACATCTGAGCCCAGAGACCTAACAGTGTGAACCTGTGATG  
AACTTGGACCACTGCCCGCAGGCTGGGAAGTCAGAAGTACAGTTTCTGGGAGGATATATTTGTAGATCA  
TAATAACCGAACAAACCCAGTTTACAGACCAAGGTTACACCACATCATGAATCACCAGTGCCAACTCAAG  
AGCCCCAGCCAGCCGCTGCCACTGCCAGTGAGGGCTCTCTGGAGGACGAGGAGCTTCTGCCACAGAT  
ACGAAAAGAGATCTAGTCCAGAAGCTGAAAGTCCAGACACGAACTGTCGCTTCAGCAGCCCCAAGCTGG  
TCATTGCCGCATCGAAGTGTCCAGAGAAGAAATCTTTGAGGAGTCTTACCGCCAGATAATGAAGATGCGA  
CCGAAAAGACTTGA AAAACCGGCTGATGGTGAATTCCTGGGGAAGAAGTTTGGATTACGGTGGTGTGG  
CCAGGGAGTGGCTTACTTGCTGTGCCATGAAATGCTGAATCCTTATTACGGGCTCTCCAGTATTCTAC  
GGACAATATTTACATGTTGCAAATAAATCCGGATTCTTCAATCAACCCCGACCACTTGTCTTATTTCCAC  
TTTGTGGGGCGGATCATGGGCTGGCTGTGTTCCATGGACACTACATCAACGGGGCTTCACAGTGCCT  
TCTACAAGCAGCTGCTGGGAAGCCATCCAGCTCTCAGATCTGGAATCTGTGGACCCAGAGCTGCATAA  
GAGCTTGGTGTGGATCCTAGAGAACGACATCACGCTGTACTGGACCACACCTTCTGCGTGAACACAAC  
GCCTTCGGGCGGATCCTGCAGCATGAACTGAAACCAATGGCAGAAATGTGCCAGTACAGAGGAGAATA  
AGAAAGAATACGTCCGGTTGATGTAAACTGGAGGTTTATGAGAGGAATCGAAGCCAGTCTTAGCTCT  
GCAGAAGGGGTTCAATGAGCTCATCCCTCAACATCTGCTGAAGCCTTTTGACCAGAAGGAACTGGAGCTG  
ATCATAGGCGGCCTGGATAAAATAGACTTGAACGACTGGAAGTGAACACGCGGCTGAAGCACTGTGTGG  
CCGACAGCAACATCGTCCGGTGGTTCTGGCAAGCGGTGGAGACGTTTCGATGAAGAAAGGAGGGCCAGGCT  
CCTGCAGTTTGTGACTGGGTCCACGCGAGTCCCCTCAAGGCTTCAAGGCTTTGCAAGTTTCTACAGGC  
GCGGCAGGGCCCCGGCTGTTACCATCCACCTGATAGACGCGAACACAGACAACCTTCCGAAGGCCATA  
CCTGCTTAACCGGATCGACATTCCACCATATGAGTCTATGAGAAGCTCTACGAGAAGCTGCTGACAGC  
CGTGGAGGAGACTGCGGTTTGTGTGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC222902 representing NM\_020429  
Red=Cloning site Green=Tags(s)

```

MSNPGTRRNGSSIKIRLTVLCAKNLAKKDFRLLPDPFAKIVVDGSGQCHSTDTVKNTLDPKWNQHYDLYV
GKTDSITISVWNHKKIHKKQAGFLGCVRLLSNAISRKDTGYQRLDLCKLNPSDTDAVRGQIVVSLQTR
DRIGTGGSVVDCRGLLENEGTVYEDSGPGRPLSCFMEEPAPYTDSTGAAAGGGNCRFVESPQDQRLQAQ
RLRNPDVVRGSLQTPQNRPHGHQSPPELPEGYEQRTTVQGQVYFLHTQTGVSTWHDPRIPSPSGTIPGGDAA
FLYEFLLQGHTSEPRDLNSVNCDELGPLPPGWEVVRSTVSGRIYFVDHNNRRTTQFTDPRLLHHIMNHQCQLK
EPSQPLPLPSEGSLEDEELPAQRYERDLVQKLKVLRHELSQLQPQAGHCRIEVSREEIFEESYRQIMKMR
PKDLKKRLMVKFRGEEGLDYGGVAREWLYLLCHEMLNPYYGLFQYSTDNIYMLQINPDSSINPDHLSYFH
FVGRIMGLAVFHGHYINGGFTVPFYKQLLGKPIQLSDLESVDPELHKSLVWILENDITPVL DHTFCVEHN
AFGRILQHELKPNRNPVTEENKKEYVRLVYVNRWFMRGIEAQFLALQKGFNELIPQHLLKPFQKLELEL
IIGGLDKIDLNDWKSNTRLKHCVADSNIVRWFQAVETFEERRARLLQFVTGSTRVPLQGFKALQGSGT
AAGPRLFTIHLIDANTDNLPAHTCFNRIDIPPYESYEKLYEKLLTAVEETCGFAVE
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6716\\_c06.zip](https://cdn.origene.com/chromatograms/mk6716_c06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_020429

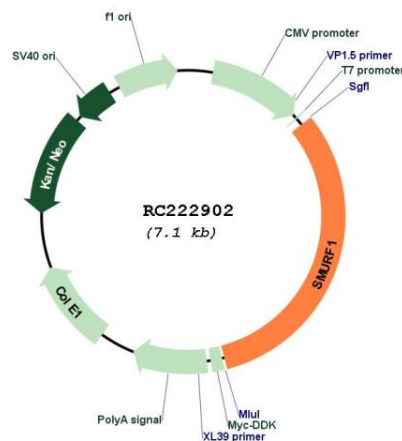
**ORF Size:** 2271 bp

**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](#)

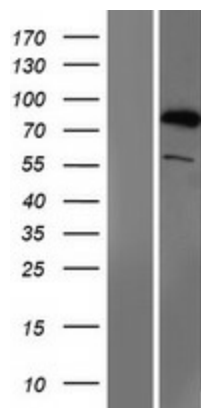
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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_020429.3</a>
<b>RefSeq Size:</b>	5737 bp
<b>RefSeq ORF:</b>	2274 bp
<b>Locus ID:</b>	57154
<b>UniProt ID:</b>	<a href="#">Q9HCE7</a>
<b>Cytogenetics:</b>	7q22.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Endocytosis, TGF-beta signaling pathway, Ubiquitin mediated proteolysis
<b>MW:</b>	85.9 kDa
<b>Gene Summary:</b>	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]

## Product images:



Circular map for RC222902



Western blot validation of overexpression lysate (Cat# [LY412480]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222902 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).