

## Product datasheet for **RG234784**

### SMURF1 (NM\_001199847) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMURF1 (NM_001199847) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMURF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234784 representing NM\_001199847  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGAACCCCGGGACACGCAGGAACGGCTCCAGCATCAAGATCCGTCTGACAGTGTTATGTGCCAAGA  
 ACCTTGCAAAGAAAGACTTCTTCAGGCTCCCTGACCCCTTTTGCAAAGATTGTCGTGGATGGGTCTGGGCA  
 GTGCCACTCAACCGACTGTGAAAAACACATTGGACCCAAAGTGAACACGACTATGATCTATATGTT  
 GGGAAAACGGATTTCGATAACCATAGCGTGTGGAACCATAAAGAAAATTCACAAGAAAACAGGGAGCTGGCT  
 TCCTGGGCTGTGTGCGGCTGCTCTCCAATGCCATCAGCAGATTAAGAGATACCGGATACCGAGCTTTGGA  
 TCTATGCAAACAAACCCCTCAGATACTGATGCAGTTCGTGGCCAGATAGTGGTCAGTTTACAGACACGA  
 GACAGAATAGGAACCGCGGCTCGGTGGTGGACTGCAGAGGACTGTTAGAAAATGAAGGAACGGTGTATG  
 AAGACTCCGGGCTGGGAGGCCGCTCAGCTGCTTCATGGAGGAACCGCCCTTACACAGATAGCACCGG  
 TGCTGCTGCTGGAGGAGGAATTGCAGGTTTCGTGGAGTCCCAAGTCAAGATCAAAGACTTCAGGCACAG  
 CGGCTTCGAAACCTGATGTGCGAGTTCACTACAGACGCCCCAGAACCGACCACACGGCCACCAGTCCC  
 CGGAACCTGCCGAAGGCTACGAACAAAGAACAACAGTCCAGGGCCAAGTTTACTTTTTGCATACACAGAC  
 TGGAGTTAGCACGTGGCAGACCCAGGATACCAAGAGACCTTAACAGTGTGAACGTGTATGAACCTGGA  
 CCACTGCCGCCAGGCTGGGAAGTACAGAGTACAGTTTCTGGGAGGATATATTTTGTAGATCATAATAACC  
 GAACAACCCAGTTTACAGACCCAAGGTTACACCACATCATGAATCACCAGTGCCAACTCAAGGAGCCAG  
 CCAGCCGCTGCCACTGCCAGTGAAGGCTCTCTGGAGGACGAGGAGCTTCTGCCAGAGATACGAAAGA  
 GATCTAGTCCAGAAGCTGAAAGTCTCAGACACGAACGTGCTTCAGCAGCCCCAAGCTGGTCATTGCC  
 GCATCGAAGTGTCCAGAGAAGAAATCTTTGAGGAGTCTTACCAGTAAATGAAGATGCGACCCGAAAGA  
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 TTTACATGTTGCAAATAAATCCGGATTCTCAATCAACCCCGACCACTTGTCTTATTTCCACTTTGTGGG  
 GCGGATCATGGGCTGGCTGTGTTCCATGGACTACATCAACGGGGGCTTACAGTGCCTTCTACAAG  
 CAGCTGCTGGGAAGCCCATCCAGCTCTCAGATCTGGAATCTGTGGACCCAGAGCTGCATAAGAGCTTGG  
 TGTGGATCCTAGAGAACGACATCAGCCTGTACTGGACCACACCTTCTGCGTGGAACACAACGCCTTCGG  
 GCGGATCCTGCAGCATGAACTGAAACCCAATGGCAGAAATGTGCCAGTACAGAGGAGAATAAGAAAGAA  
 TACGTCGGTGTATGTAACCTGGAGGTTTATGAGAGGAATCGAAGCCAGTTCTTAGCTCTGCAGAAGG  
 GGTTCATGAGCTCATCCCTCAACATCTGCTGAAGCCTTTTGACCAGAAGGAACTGGAGCTGATCATAGG  
 CGGCTGGATAAAATAGACTTGAACGACTGGAAGTCAACACGCGGCTGAAGCACTGTGTGGCCGACAGC  
 AACATCGTGCAGTGGTCTGGCAAGCGGTGGAGACGTTTCGATGAAGAAAGGAGGGCCAGGCTCCTGCAGT  
 TTGTGACTGGGTCCACGCGAGTCCCGCTCCAAGGCTTCAAGGCTTTGCAAGGCGCGGAGGGCCCGGCT  
 GTTCACCATCCACCTGATAGACGCGAACACAGACAACCTTCCGAAGGCCATACCTGCTTTAACCGGATC  
 GACATTCACCATATGAGTCCTATGAGAAGCTCTACGAGAAGCTGCTGACAGCCGTGGAGGAGACCTGCC  
 GGTTTCTGTGGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG234784 representing NM\_001199847  
 Red=Cloning site Green=Tags(s)

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MSNPGTRRNGSSIKIRLTVLCAKNLAKKDFRLLPDPFAKIVVDGSGQCHSTDTVKNTLDPKWNQHYDLYV
GKTDSITISVWNHKKIHKKQGAGFLGCVRLLSNAISRDKDTGYQRLDLCKLNPSDTDAVRGQIVVSLQTR
DRIGTGGSVVDCRGLLENEGTVYEDSGPGRPLSCFMEEPAPYTDSTGAAAGGGNCRFVESPSQDQRLQAQ
RLRNPDVVRGSLQTPQNRPHGHQSPPELPEGYEQRTTVQGQVYFLHTQTGVSTWHDPRIPRDLNSVNCDELG
PLPPGWEVRSTVSGRIYFVDHNNRRTQFTDPRLLHHIMNHQCQLKEPSQPLPLPSEGSLEDEELPAQRYER
DLVQKLKVLRLHSLQPPQAGHCRIEVSREEIFEEESYRQIMKMRPKDLKRLMVKFRGEEGLDYGGVARE
WLYLLCHEMLNPYYGLFQYSTDNIYMLQINPDSSINPDHLSYHFHVGRIMGLAVFHGHYINGGFTVPFYK
QLLGKPIQLSDLESVDPELHKSLVWILENDITPVL DHTFCVEHNAFGRILQHELKPNGRNVPVTEENKKE
YVRLYVNRWFRMGIEAQFLALQKGFNELIPQHLLKPFQKELELIIGGLDKIDLNDWKSNTRLKHCVADS
NIVRWFWQAVETFDEERRARLLQFVTGSTRVPLQGFKALQGAAGPRLFTIHLIDANTDNLPAHTCFNRI
DIPPYSEYKLYEKLLTAVEETCGFAVE
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001199847

**ORF Size:** 2184 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.

**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\\_001199847.2](#)

**RefSeq Size:** 5694 bp

**RefSeq ORF:** 2187 bp

**Locus ID:** 57154

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

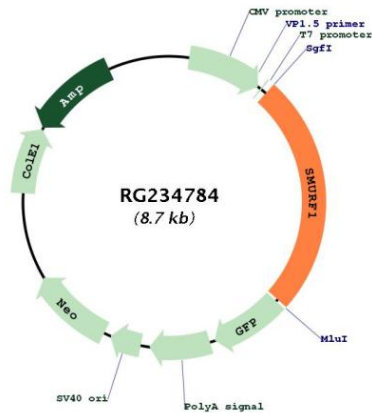
**Cytogenetics:** 7q22.1

**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]

**Product images:**



Circular map for RG234784