

Product datasheet for **RC234784**

SMURF1 (NM_001199847) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMURF1 (NM_001199847) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SMURF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC234784 representing NM_001199847
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGCAACCCCGGGACACGCAGGAACGGCTCCAGCATCAAGATCCGTCTGACAGTGTTATGTGCCAAGA
ACCTTGCAAAGAAAGACTTCTTCAGGCTCCCTGACCCTTTTGCAAAGATTGTCGTGGATGGGTCTGGGCA
GTGCCACTCAACCGACTGTGAAAAACACATTGGACCCAAAGTGAACAGCACTATGATCTATATGTT
GGGAAAACGGATTTCGATAACCATAGCGTGTGGAACATAAGAAAATTCACAAGAAAACAGGGAGCTGGCT
TCCTGGGCTGTGTGCGGCTGCTCTCCAATGCCATCAGCAGATTAAGATACCGGATACCGAGCTTTGGA
TCTATGCAAACTAAACCCCTCAGATACTGATGCAGTTCGTGGCCAGATAGTGGTCAGTTTACAGACACGA
GACAGAATAGGAACCGCGGCTCGGTGGTGGACTGCAGAGGACTGTTAGAAAATGAAGGAACGGTGTATG
AAGACTCCGGCCTGGGAGGCCGCTCAGCTGCTTCATGGAGGAACAGCCCTTACACAGATAGCACCGG
TGCTGCTGCTGGAGGAGGAATTGCAGGTTTCGTGGAGTCCCAAGTCAAGATCAAAGACTTCAGGCACAG
CGGCTTCGAAACCTGATGTGCGAGTTCACTACAGACGCCCCAGAACCAGCACAGGCCACCAGTCCC
CGGAACCTGCCGAAGGCTACGAACAAAGAACAACAGTCCAGGGCCAAGTTTACTTTTTGCATACACAGAC
TGGAGTTAGCACGTGGCAGACCCAGGATACCAAGAGACCTTAACAGTGTGAACTGTGATGAACTTGG
CCACTGCCGCCAGGCTGGGAAGTACAGAGTACAGTTTCTGGGAGGATATATTTTGTAGATCATAATAACC
GAACAACCCAGTTTACAGACCCAAGGTTACACCACATCATGAATCACCAGTGCCAACTCAAGGAGCCAG
CCAGCCGCTGCCACTGCCAGTGAAGGCTCTCTGGAGGACGAGGAGCTTCTGCCAGAGATACGAAAGA
GATCTAGTCCAGAAGCTGAAAGTCTCAGACACGAACGTGCTTCAGCAGCCCCAAGCTGGTCATTGCC
GCATCGAAGTGTCCAGAGAAGAAATCTTTGAGGAGTCTTACCAGCAGATAATGAAGATGCGACCGAAAGA
CTTGAAAAACCGCTGATGGTGAATTCCTGGGGGAAGAAGTTTGGATTACGGTGGTGTGGCCAGGGAG
TGGCTTACTTGCTGTGCCATGAAATGTGAATCCTTATTACGGGCTCTTCCAGTATTCTACGGACAATA
TTTACATGTTGCAATAAATCCGGATTCTCAATCAACCCCGACCACTTGTCTTATTTCCACTTTGTGGG
GCGGATCATGGGCTGGCTGTGTTCCATGGACTACATCAACGGGGGCTTACAGTGCCTTCTACAAG
CAGCTGCTGGGAAGCCCATCCAGCTCTCAGATCTGGAATCTGTGGACCCAGAGCTGCATAAGAGCTTGG
TGTGGATCCTAGAGAACGACATCAGCCTGTACTGGACCACACCTTCTGCGTGGAACACAACGCCTTCGG
GCGGATCCTGCAGCATGAACTGAAACCCAATGGCAGAAATGTGCCAGTACAGAGGAGAATAAGAAAGAA
TACGTCGGTTGTATGTAACCTGGAGTTTATGAGAGGAATCGAAGCCAGTTCTTAGCTCTGCAGAAGG
GGTTCAATGAGCTCATCCCTCAACATCTGCTGAAGCCTTTTGACCAGAAGGAACTGGAGCTGATCATAGG
CGGCTGGATAAAATAGACTTGAACGACTGGAAGTCAACACGCGGCTGAAGCACTGTGTGGCCGACAGC
AACATCGTGCAGTGGTTCTGGCAAGCGGTGGAGACGTTTCGATGAAGAAAGGAGGGCCAGGCTCCTGCAGT
TTGTGACTGGGTCCACGCGAGTCCCGCTCCAAGGCTTCAAGGCTTTGCAAGGCGCGGAGGGCCCGGCT
GTTACCATCCACCTGATAGACGCGAACACAGACAACCTTCCGAAGGCCATACCTGCTTTAACCGGATC
GACATTCACCATATGAGTCCTATGAGAAGCTCTACGAGAAGCTGCTGACAGCCGTGGAGGAGACCTGCG
GGTTTGTGTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234784 representing NM_001199847
 Red=Cloning site Green=Tags(s)

MSNPGTRRNGSSIKIRLTVLCAKNLAKKDFRLPDPFAKIVVDGSGQCHSTDTVKNTLDPKWNQHYDLYV
 GKTDSTITISVWNHKKIHKKQAGFLGCVRLLSNAISRKDTGYQRLDLCKLNPSDTDAVRGQIVVSLQTR
 DRIGTGGSVVDCRGLLENEGTVYEDSGPGRPLSCFMEEPAPYTDSTGAAAGGGNCRFVESPQDQRLQAQ
 RLRNPDVRGSLQTPQNRPHGHQSPPELPEGYEQRTTVQGQVYFLHTQTGVSTWHDPRIPRDLNSVNCDELG
 PLPPGWVVRSTVSGRIYFVDHNNRTTQFTDPRLHHIMNHQCQLKEPSQPLPLPSEGSLEDEELPAQRYER
 DLVQKLKVLRLHLSLQQPQAGHCRIEVSREEIFEEYSYRQIMKMRPKDLKRLMVKFRGEEGLDYGGVARE
 WLYLLCHEMLNPYYGLFQYSTDNIYMLQINPDSSINPDHLSYHFHVGRIMGLAVFHGHYINGGFTVPFYK
 QLLGKPIQLSDLESVDPELHKSLVWILENDITPVL DHTFCVEHNAFGRILQHELKPNGRNVPVTEENKKE
 YVRLYVNWRFMRGIEAQFLALQKGFNELIPQHLLKPFQKELEL IIGGLDKIDLNDWKSNTRLKHCVADS
 NIVRWFQAVETFDEERRARLLQFVTGSTRVPLQGFKALQGAAGPRLFTIHLIDANTDNLPAHTCFNRI
 DIPPYESYEKLYEKLLTAVEETCGFAVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

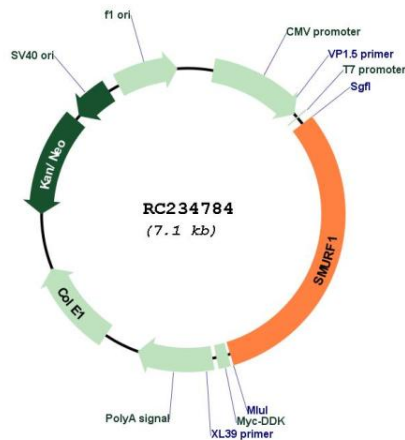
Protein Families: Druggable Genome

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

MW: 83.6 kDa

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 RC234784