

Product datasheet for **RG219536**

SMURF1 (NM_181349) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMURF1 (NM_181349) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMURF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG219536 representing NM_181349
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGAACCCCGGGACACGCAGGAACGGCTCCAGCATCAAGATCCGTCTGACAGTGTTATGTGCCAAGA
ACCTTGCAAAGAAAGACTTCTTCAGGCTCCCTGACCCTTTTGCAAAGATTGTCGTGGATGGGTCTGGGCA
GTGCCACTCAACCGACTGTGAAAAACACATTGGACCCAAAGTGAACAGCACTATGATCTATATGTT
GGGAAAACGGATTTCGATAACCATAGCGTGTGGAACCATAAAGAAAATTCACAAGAAAACAGGGAGCTGGCT
TCCTGGGCTGTGTGCGGCTGCTCTCCAATGCCATCAGCAGATTAAGATACCGGATACAGCGTTTGGTA
TCTATGCAAACCTAAACCCCTCAGATACTGATGCAGTTCGTGGCCAGATAGTGGTCAGTTTACAGACACGA
GACAGAATAGGAACCGCGGCTCGGTGGTGGACTGCAGAGGACTGTTAGAAAATGAAGGAACGGTGTATG
AAGACTCGGGCCTGGGAGGCCGCTCAGCTGCTTCATGGAGGAACAGCCCTTACACAGATAGCACCGG
TGCTGCTGCTGGAGGAGGAATTGCAGGTTTCGTGGAGTCCCAAGTCAAGATCAAAGACTTCAGGCACAG
CGGCTTCGAAACCTGATGTGCGAGTTCACTACAGACGCCCCAGAACCGACCACAGGCCACCAGTCCC
CGGAACCTGCCGAAGGCTACGAACAAAGAACACAGTCCAGGGCCAAGTTTACTTTTTGCATACACAGAC
TGGAGTTAGCACGTGGCAGACCCAGGATACCAAGAGACCTTAACAGTGTGAACGTGTATGAACCTGGA
CCACTGCCGCCAGGCTGGGAAGTACAGAGTACAGTTTCTGGGAGGATATATTTTGTAGATCATAATAACC
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CCAGCCGCTGCCACTGCCAGTGAAGGCTCTCTGGAGGACGAGGAGCTTCTGCCAGAGATACGAAAGA
GATCTAGTCCAGAAGCTGAAAGTCTCAGACACGAACGTGCTTCAGCAGCCCCAAGCTGGTCATTGCC
GCATCGAAGTGTCCAGAGAAGAAATCTTTGAGGAGTCTTACCAGTCAATGAAGATGCGACCCGAAAGA
CTTGAAAAACCGCTGATGGTGAATTCCTGGGGAAGAAGTTTGGATTACGGTGGTGTGCCAGGGAG
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GCGGATCCTGCAGCATGAACTGAAACCCAATGGCAGAAATGTGCCAGTACAGAGGAGAATAAGAAAGAA
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GGTTCAATGAGCTCATCCCTCAACATCTGCTGAAGCCTTTTGACCAGAAGGAACTGGAGCTGATCATAGG
CGGCTGGATAAAATAGACTTGAACGACTGGAAGTCAACACGCGGCTGAAGCACTGTGTGGCCGACAGC
AACATCGTGCAGTGGTCTGGCAAGCGGTGGAGACGTTTCGATGAAGAAAGGAGGGCCAGGCTCCTGCAGT
TTGTGACTGGGTCCACGCGAGTCCCGCTCCAAGGCTTCAAGGCTTTCAGGTTCTACAGGCGCGGACAGG
GCCCGGCTGTTACCATCCACCTGATAGACGCGAACACAGACAACCTTCCGAAGGCCATACCTGCTTT
AACCGGATCGACATTCACCATATGAGTCTATGAGAAGCTCTACGAGAAGCTGCTGACAGCCGTGGAGG
AGACCTGCGGGTTGCTGTGGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219536 representing NM_181349
 Red=Cloning site Green=Tags(s)

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MSNPGTRRNGSSIKIRLTVLCAKNLAKKDFRLLPDPFAKIVVDGSGQCHSTDTVKNLDPKWNQHYDLYV
GKTDSITISVWNHKKIHKKQAGFLGCVRLLSNAISRKDTGYQRLDLCKLNPSDTDAVRGQIVVSLQTR
DRIGTGGSVVDCRGLLENEGTVYEDSGPGRPLSCFMEEPAPYTDSTGAAAGGGNCRFVESPQDQRLQAQ
RLRNPDVVRGSLQTPQNRPHGHQSPPELPEGYEQRTTVQGQVYFLHTQTGVSTWHDPRIPRDLNSVNCDELG
PLPPGWEVRSTVSGRIYFVDHNNRRTTQFTDPRLHHIMNHQCQLKEPSQPLPLPSEGSLEDEELPAQRYER
DLVQKLKVLRLHLSLQQPQAGHCRIEVSREEIFEEESYRQIMKMRPKDLKRLMVKFRGEEGLDYGGVARE
WLYLLCHEMLNPYYGLFQYSTDNIYMLQINPDSSINPDHLSYHFHVGRIMGLAVFHGHYINGGFTVPFYK
QLLGKPIQLSDLESVDPELHKSLVWILENDITPVL DHTFCVEHNAFGRILQHELKPNGRNVPVTEENKKE
YVRLYVNWRFMRGIEAQFLALQKGFNELIPQHLLKPFQKELEL IIGGLDKIDLNDWKSNTRLKHCVADS
NIVRWFWQAVETFDEERRARLLQFVTGSTRVPLQGFKALQGSTGAAGPRLFTIHLIDANTDNLPKAHTCF
NRIDIPPYESYEKLYEKLLTAVEETCGFAVE
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181349

ORF Size: 2193 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_181349.1](#), [NP_851994.1](#)

RefSeq Size: 5659 bp

RefSeq ORF: 2196 bp

Locus ID: 57154

UniProt ID: [Q9HCE7](#)

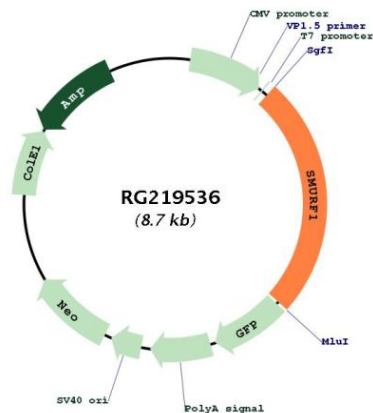
Cytogenetics: 7q22.1

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 RG219536