OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG226199

Smurf1 (NM_001038627) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smurf1 (NM_001038627) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Smurf1
Synonyms:	4930431E10Rik; mKIAA1625
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG226199 representing NM_001038627
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGAACCCCGGGACCCGTAGGAACGGCTCCAGCATCAAGATCCGTCTGACAGTATTGTGTGCCAAGA
ACCTTGCAAAGAAAGACTTCTTCAGACTCCCCGACCCCTTTGCCAAGATTGTTGTGGACGGCTCTGGGCA
GTGCCACTCAACCGACACTGTGAAAAACACCCTGGACCCAAAGTGGAACCAGCACTATGACCTGTATGTT
GGGAAAACGGACTCGATAACCATCAGTGTGTGGAACCACAAGAAGATCCACAAGAAGCAGGGGGCTGGCT
TCCTGGGCTGTGTGCGGCTGCTCTCCAATGCCATCAGCAGATTGAAAGACACTGGCTACCAGCGTTTGGA
TCTATGCAAACTAAATCCCTCAGATACTGATGCAGTTCGTGGCCAAATAGTGGTCAGTTTACAGACCCGA
GACAGAATAGGCGGTGGAGGGTCAGTGGTGGACTGCAGAGGGCTGCTGGAGAACGAAGGAACAGTGTATG
AAGACTCAGGCCCTGGAAGGCCGCTCAGCTGCCTCATGGAGGAACCTGCCCCATATACAGATGGTACTGG
TGCAGCAGCAGGAGGCGGGAACTGCAGGTTTGTGGAGTCTCCAAGCCAAGATCAGAGACTCCTGGTACAG
CGACTCCGAAATCCTGAGGTTCGAGGGCCCTTACAGACACCCCAGAACCGACCACATGGCCACCAGTCGC
CAGAGCTGCCTGAAGGCTATGAGCAAAGGACAACAGTGCAGGGACAAGTTTACTTTTTGCACACGCAGAC
TGGAGTCAGTACATGGCATGACCCCAGGATCCCCAGAGACCTTAACAGTGTGAACTGCGATGAACTTGGG
CCACTGCCTCCAGGCTGGGAAGTCCGAAGCACAGTGTCGGGAAGAATCTATTTTGTAGATCACAATAATA
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CCAGCCGCTGCAGCTGCCCAGTGAGGGCTCCGTGGAGGACGAGGAGCTTCCTGCCCAGAGATATGAGAGG
GACTTAGTCCAGAAGCTCAAAGTTCTCAGGCACGAGCTCTCTCTTCAGCAGCCCCAGGCTGGTCACTGTC
GAATAGAAGTCTCCAGAGAAGAGATATTTGAGGAGTCGTATCGCCAGATCATGAAGATGCGGCCAAAAGA
CCTAAAGAAGCGCCTGATGGTGAAGTTCCGAGGGGAGGAAGGTTTGGACTATGGTGGAGTGGCTCGGGAG
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CAGCTCCTGGGGAAGCCAATCCAGCTGTCGGACCTGGAGTCCGTGGACCCAGAACTGCATAAGAGCTTGG
TGTGGATTCTAGAGAATGACATCACGCCTGTGTTGGATCATACCTTCTGCGTGGAGCACAACGCTTTCGG
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TACGTCCGGCTGTATGTGAACTGGAGGTTTATGAGAGGAATCGAAGCCCAGTTCTTAGCACTTCAGAAGG
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TGGGCTGGATAAGATAGACCTGAACGACTGGAAGTCCAACACCCGGCTGAAACACTGTGTGGCAGACAGC
AACATCGTCAGGTGGTTCTGGCAGGCGGTGGAGACCTTCGATGAGGAGAGGAGAGCCAGACTCCTGCAGT
TTGTGACAGGATCCACAAGAGTTCCTCTCCAAGGCTTCAAGGCTCTGCAAGGCTCTACAGGCGCGGCAGG
GCCCCGGCTGTTCACCATTCACCTGATAGACGCCAATACAGACAACCTGCCCAAGGCCCATACCTGCTTT
AATCGGATCGACATCCCACCCTATGAGTCCTATGAGAAGCTCTATGAGAAGCTGCTGACAGCGGTGGAGG
AAACCTGTGGCTTTGCAGTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

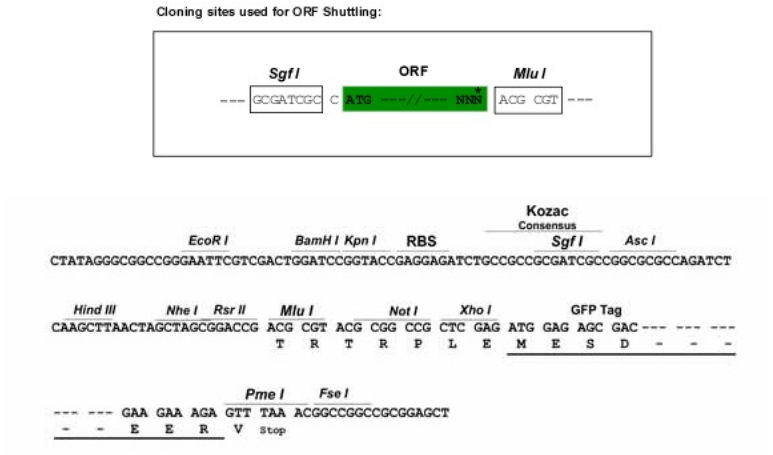
>MG226199 representing NM_001038627
Red=Cloning site Green=Tags(s)

MSNPGTRRNGSSIKIRLTVLCAKNLAKKDFFRLPDPFAKIVVDGSGQCHSTDTVKNTLDPKWNQHYDLYV
GKTDSITISVWNHKKIHKKQGAGFLGCVRLLSNAISRLKDTGYQRLDLCKLNPSDTDAVRGQIVVSLQTR
DRIGGGGSVVDCRGLLENEGTVYEDSGPGRPLSCLMEEPAPYTDGTGAAAGGGNCRFVESPSQDQRLLVQ
RLRNPEVRGPLQTPQNRPHGHQSPELPEGYEQRTTVQGQVYFLHTQTGVSTWHDPRIPRDLNSVNCDELG
PLPPGWEVRSTVSGRIYFVDHNNRTTQFTDPRLHHIMNHQCQLKEPSQPLQLPSEGSVEDEELPAQRYER
DLVQKLKVLRHELSLQQPQAGHCRIEVSREEIFEESYRQIMKMRPKDLKKRLMVKFRGEEGLDYGGVARE
WLYLLCHEMLNPYYGLFQYSTDNIYTLQINPDSSINPDHLSYFHFVGRIMGLAVFHGHYINGGFTVPFYK
QLLGKPIQLSDLESVDPELHKSLVWILENDITPVLDHTFCVEHNAFGRILQHELKPNGRNVPVTEENKKE
YVRLYVNWRFMRGIEAQFLALQKGFNELIPQHLLKPFDQKELELIIGGLDKIDLNDWKSNTRLKHCVADS
NIVRWFWQAVETFDEERRARLLQFVTGSTRVPLQGFKALQGSTGAAGPRLFTIHLIDANTDNLPKAHTCF
NRIDIPPYESYEKLYEKLLTAVEETCGFAVE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001038627

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_001038627.1, NP_001033716.1

RefSeq Size: 5333 bp

RefSeq ORF: 2196 bp

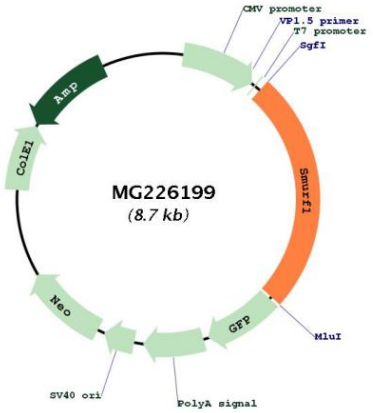
Locus ID: 75788

UniProt ID: Q9CUN6

Cytogenetics: 5 G2

Gene Summary: E3 ubiquitin-protein ligase that acts as a negative regulator of BMP signaling pathway (By similarity). Mediates ubiquitination and degradation of SMAD1 and SMAD5, 2 receptor-regulated SMADs specific for the BMP pathway (By similarity). Promotes ubiquitination and subsequent proteasomal degradation of TRAF family members and RHOA (By similarity). Promotes ubiquitination and subsequent proteasomal degradation of MAVS (PubMed:23087404). Plays a role in dendrite formation by melanocytes (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226199