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Product datasheet for SC112098

SMURF1 (NM_181349) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMURF1 (NM_181349) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMURF1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_181349 edited
GAATTCGGCACGAGGCGCTGGATCCGCGGCTGCCCGATCGTTGGCGGGAGATGTCGAACC
CCGGGACACGCAGGAACGGCTCCAGCATCAAGATCCGTCTGACAGTGTTATGTGCCAAGA
ACCTTGCAAAGAAAGACTTCTTCAGGCTCCCTGACCCTTTTGCAAAGATTGTCGTGGATG
GGTCTGGGCAGTGCCACTCAACCGACACTGTGAAAAACACATTGGACCCAAAGTGGAACC
AGCACTATGATCTATATGTTGGGAAAACGGATTCGATAACCATTAGCGTGTGGAACCATA
AGAAAATTCACAAGAAACAGGGAGCTGGCTTCCTGGGCTGTGTGCGGCTGCTCTCCAATG
CCATCAGCAGATTAAAAGATACCGGATACCAGCGTTTGGATCTATGCAAACTAAACCCCT
CAGATACTGATGCAGTTCGTGGCCAGATAGTGGTCAGTTTACAGACACGAGACAGAATAG
GAACCGGCGGCTCGGTGGTGGACTGCAGAGGACTGTTAGAAAATGAAGGAACGGTGTATG
AAGACTCGGGGCCTGGGAGGCCGCTCAGCTGCTTCATGGAGGAACCAGCCCCTTACACAG
ATAGCACCGGTGCTGCTGCTGGAGGAGGGAATTGCAGGTTCGTGGAGTCCCCAAGTCAAG
ATCAAAGACTTCAGGCACAGCGGCTTCGAAACCCTGATGTGCGAGGTTCACTACAGACGC
CCCAGAACCGACCACACGGCCACCAGTCCCCGGAACTGCCCGAAGGCTACGAACAAAGAA
CAACAGTCCAGGGCCAAGTTTACTTTTTGCATACACAGACTGGAGTTAGCACGTGGCACG
ACCCCAGGATACCAAGAGACCTTAACAGTGTGAACTGTGATGAACTTGGACCACTGCCGC
CAGGCTGGGAAGTCAGAAGTACAGTTTCTGGGAGGATATATTTTGTAGATCATAATAACC
GAACAACCCAGTTTACAGACCCAAGGTTACACCACATCATGAATCACCAGTGCCAACTCA
AGGAGCCCAGCCAGCCGCTGCCACTGCCCAGTGAGGGCTCTCTGGAGGACGAGGAGCTTC
CTGCCCAGAGATACGAAAGAGATCTAGTCCAGAAGCTGAAAGTCCTCAGACACGAACTGT
CGCTTCAGCAGCCCCAAGCTGGTCATTGCCGCATCGAAGTGTCCAGAGAAGAAATCTTTG
AGGAGTCTTACCGCCAGATAATGAAGATGCGACCGAAAGACTTGAAAAAACGGCTGATGG
TGAAATTCCGTGGGGAAGAAGGTTTGGATTACGGTGGTGTGGCCAGGGAGTGGCTTTACT
TGCTGTGCCATGAAATGCTGAATCCTTATTACGGGCTCTTCCAGTATTCTACGGACAATA
TTTACATGTTGCAAATAAATCCGGATTCTTCAATCAACCCCGACCACTTGTCTTATTTCC
ACTTTGTGGGGCGGATCATGGGGCTGGCTGTGTTCCATGGACACTACATCAACGGGGGCT
TCACAGTGCCCTTCTACAAGCAGCTGCTGGGGAAGCCCATCCAGCTCTCAGATCTGGAAT
CTGTGGACCCAGAGCTGCATAAGAGCTTGGTGTGGATCCTAGAGAACGACATCACGCCTG
TACTGGACCACACCTTCTGCGTGGAACACAACGCCTTCGGGCGGATCCTGCAGCATGAAC
TGAAACCCAATGGCAGAAATGTGCCAGTCACAGAGGAGAATAAGAAAGAATACGTCCGGT
TGTATGTAAACTGGAGGTTTATGAGAGGAATCGAAGCCCAGTTCTTAGCTCTGCAGAAGG
GGTTCAATGAGCTCATCCCTCAACATCTGCTGAAGCCTTTTGACCAGAAGGAACTGGAGC
TGATCATAGGCGGCCTGGATAAAATAGACTTGAACGACTGGAAGTCGAACACGCGGCTGA
AGCACTGTGTGGCCGACAGCAACATCGTGCGGTGGTTCTGGCAAGCGGTGGAGACGTTCG
ATGAAGAAAGGAGGGCCAGGCTCCTGCAGTTTGTGACTGGGTCCACGCGAGTCCCGCTCC
AAGGCTTCAAGGCTTTGCAAGGTTCTACAGGCGCGGCAGGGCCCCGGCTGTTCACCATCC
ACCTGATAGACGCGAACACAGACAACCTTCCGAAGGCCCATACCTGCTTTAACCGGATCG
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AGACCTGCGGGTTTGCTGTGGAGTGAAAAGCAACCAAAGGCAACAGAGTCTAGCTCATGG
CCACCAGACCAAAAAGCATCCAGCTTCTGTGCACCTCCTGCAAAGCTGGCAGAGGCCCTG
GAATTCCAGATCACCTGAGGGGAAAGGGTTGTCTCTCTCCTTTCTGTTGGGGGAGGGGGA
TGGGGGACTTTTGTTGGTGGCTCCCACCCATATATCCCTCCTTTACCATAGTACTCCCAC
CCACTTCCATCACCCATCCAATAAAATGCAGCCAGGTTTAGCCTTTGGCTTTGGTCACAC
AGGAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_181349 unedited
AGCATTTTGTAATACGACTCACTTATAGGGCGGCCGCGAATTCGCACGAGGCGCTGGATC
CGCGGCTGCCCGATCGTTGGCGGGAGATGTCGAACCCCGGGACACGCAGGAACGGCTCCA
GCATCAAGATCCGTCTGACAGTGTTATGTGCCAAGAACCTTGCAAAGAAAGACTTCTTCA
GGCTCCCTGACCCTTTTGCAAAGATTGTCGTGGATGGGTCTGGGCAGTGCCACTCAACCG
ACACTGTGAAAAACACATTGGACCCAAAGTGGAACCAGCACTATGATCTATATGTTGGGA
AAACGGATTCGATAACCATTAGCGTGTGGAACCATAAGAAAATTCACAAGAAACAGGGAG
CTGGCTTCCTGGGCTGTGTGCGGCTGCTCTCCAATGCCATCAGCAGATTAAAAGATACCG
GATACCAGCGTTTGGATCTATGCAAACTAAACCCCTCAGATACTGATGCAGTTCGTGGCC
AGATAGTGGTCAGTTTACAGACACGAGACAGAATAGGAACCGGCGGCTCGGTGGTGGACT
GCAGAGGACTGTTAGAAAATGAAGGAACGGTGTATGAAGACTCGGGGCCTGGGAGGCCGC
TCAGCTGCTTCATGGAGGAACCAGCCCCTTACACAGATAGCACCGGTGCTGCTGCTGGAG
GAGGGAATTGCAGGTTCGTGGAGTCCCCAAGTCAAGATCAAAGACTTCAGGCACAGCGGC
TTCGAAACCCTGATGTGCGAGGNTCACTACAGACGCCCCAGAACCGACCACACGGNCACC
AGTCCNCGGAACTGCCCCGAGGCTACGANACAAGACAACAGTCCAGGGCCAAGTTTACTT
TNTGCATACACAGACTGGGAGTAGCACGTGGCACGACCCCCAGATACAAGAGACCTTACA
GTGTGAACTGTGATGAACTTGGACCACTGCCGCCAGCCTGGGAAGTCAAAGTACAGTTTC
G

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_181349 unedited
ATGACCGCGGCCGCAATCTANAATCGAGTTTTTTTTTTTTTTTTTCCTGTGTGACCAAA
GCCAAAGGCTAAACCTGGCTGCATTTTATTGGATGGGTGATGGAAGTGGGTGGGAGTACT
ATGGTAAAGGAGGGATATATGGGTGGGAGCCACCAACAAAAGTCCCCCATCCCCCTCCCC
CAACAGAAAGGAGAGAGACAACCCTTTCCCCTCAGGTGATCTGGAATTCCAGGGCCTCTG
CCAGCTTTGCAGGAGGTGCACAGAAGCTGGATGCTTTTTGGTCTGGTGGCCATGAGCTAG
ACTCTGTTGCCTTTGGTTGCTTTTCACTCCACAGCAAACCCGCAGGTCTCCTCCACGGCT
GTCAGCAGCTTCTCGTAGAGCTTCTCATAGGACTCATATGGTGGAATGTCGATCCGGTTA
AAGCAGGTATGGGCCTTCGGAAGGTTGTCTGTGTTCGCGTCTATCAGGTGGATGGTGAAC
AGCCGGGGCCCTGCCGCGCCTGTAGAACCTTGCAAAGCCTTGAAGCCTTGGAGCGGGACT
CGCGTGGACCCAGTCACAAACTGCAGGAGCCTGGCCCTCCTTTCTTCATCGAACGTCTCC
ACCGCTGGCCAGAACCACCGCACGATGTTGCTGTCGGCCACACAGTGCTTCAGCCGCGTG
TTCGACTTCCAGTCGTTCAAGTCTATTTTATCCAGGCCCGCCTATGATCAGCTCCCAGTC
CCTTTCTGGTCAAAAAGGCTTCACCAGATGTTGAGGGATGAGCTCATTGAACCCCTTCTG
CAGAGCTAAGAACTGGGCTTCGATTCCTCTCATAACCTCCAGTTTCATACAACCGAACGT
ATTCTTTCTAATCTCCTTTGTGACGGCACATTTCTGCCATTGGGTTCAATTCATGCTGCA
GAACCGCCCGAGGCTTGGTGTCCACCCAAAGTTGGGTCCAAACAGGCGGAAGTCTTCTCT
AGATCCCCCAATTT

Restriction Sites: NotI-NotI

ACCN: NM_181349

Insert Size: 2440 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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] Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1. Isoform 2 is shorter than isoform 1.