

Product datasheet for **SC213364**

SMURF 2 (SMURF2) (NM_022739) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	SMURF 2 (SMURF2) (NM_022739) Human 3' UTR Clone
Symbol:	SMURF 2
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_022739
Insert Size:	2000 bp



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Insert Sequence:

>SC213364 3'UTR clone of NM_022739

The sequence shown below is from the reference sequence of NM_022739. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAAGAAACATGTGGATTTGCTGTGGAATGACAAGCTTCAAGGATTTACCCAGGACTCTATTTATACAAC
CCTGACTGACAGCCTCCTTTACAGCAGAGTTTCAAAGAATATGCTGAAATACAGGAAAAACTCCCCCCC
CCCCCTTTTTTTTTTTTTTTTACATTTTAGGACTGTGAGGGGAAAGGACAATTTTGAATTCCTT
TTCAAGGAAAAAAAAGGTCTTTATGCTTTGCCATGAGGCCACATTCAGCTGCTATTTAACTTAATATC
TTGAACCTAAAGAATGCTGACTTTTCTACATTTCCAGAGTTAGGCAGTATTCTACACTAAAGACTAC
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ACTTCAGCAGTCGGTACAAGTACATTTTCAATTTGATTGAATACATGATCTTGAACAGCTCCTGTACTT
GCTCTTTGTAAAAAAAATAAAATTTTTGAATTATTCTACCTTTGTAACAATTGGCTAAAAGAATC
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TGTTTCAACCTAGTCTAAGTGGGTCTTTTTACATTTTTCAAGAACGGATTTCTGGAATACAGCGATA
TAATTTTGGTTGTCAAATTCCTAATGCAACCATTTAGTCTAAACTTAGTCATTTATTTGTGACAATAAG
ATGTGTTCCAGGGCTCCCTGTTTTAAGAGACTCTTTAAAAAAAACCTAATGTTTTATCTTG
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GCATGTGGATGGGATGGGATTTTCGTTATTTGCTGGGCAGCTTATCTTAAATATATGGACTATTCCT
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GGAATCCCGCTTCCCTTGGTGTGAAGACTGTCATCTGATTTTGAACGTCAGATTTAGCTTTCAAGG
TGCGTGCATGTTGAATGATCCAGAAGCAACGAAAACCTGGGGTGAGGGATTGAAAAATCTGAAATCA
CAGTTGGATTTTTAAATCAACCATCAAAAATATGACTATCAGTTTTTTTTTACATTGATGTGAAATA
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TAATGGTTTAAGAGAAGAGGGGCAATGAGAGGGAGCGAGGGGAAGGCCTAGTTGGTATTTGAGCAGGG
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AAGTAAGCTTTTATGGGTGTCAGTGGGGCGGGGAGGAATGGATGGGATAAAAAAGTGGAGATTTTGT
GCTTTAAAAAAGTTGAGAACTACTTGTGTAGTTTTTAAGTATTTAATGTATTTTCAATTTGGCCAAATTC
AACTGCCACAAGCAAGCTAGTCAAGTTGTAAGTGTGAGTGGTAAATAGCTTATGCCTACCTTTTTTCC
TCTCAAACAATTTGTTTTTTTTTACATTGCATTCTGAGTACTGAAGAGCATCTTGAATGTATGGAAGT
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
    
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Restriction Sites:

Sgfl-MluI

OTI Disclaimer:

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components:

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq:

[NM_022739.4](#)

Summary:

E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Interacts with SMAD1 and SMAD7 in order to trigger their ubiquitination and proteasome-dependent degradation. In addition, interaction with SMAD7 activates autocatalytic degradation, which is prevented by interaction with SCYE1. Forms a stable complex with the TGF-beta receptor-mediated phosphorylated SMAD2 and SMAD3. In this way, SMAD2 may recruit substrates, such as SNON, for ubiquitin-mediated degradation. Enhances the inhibitory activity of SMAD7 and reduces the transcriptional activity of SMAD2. Coexpression of SMURF2 with SMAD1 results in considerable decrease in steady-state level of SMAD1 protein and a smaller decrease of SMAD2 level.[UniProtKB/Swiss-Prot Function]

Locus ID:

64750

MW:

76.5