

Product datasheet for **MC216658**

Sufu (NM_015752) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sufu (NM_015752) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sufu
Synonyms:	Su(fu)
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216658 representing NM_015752
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCTGCGGCCCTAGCGTCGCCCCCGTCCCGCCGCGCCCGGCCCTCTGGCCCTAGTGCCCTC
 CGGCCTTTGCTTCACTCTTTCCCGGGACTGCAGCCATCTACGGAGAGTGTCCGCCCTTACCTGA
 CCAGCCGAACCCGCTCCAGGTTACCGCTATCGTCAAGTACTGGTTGGTGGTCCGGACCCCTTGACTAT
 GTTAGCATGTACAGGAACATGGGGAGTCCCTTGCACAACATCCCTGAGCACTGGCACTACATCAGCTTTG
 GCCTGAGTGATCTCTATGGTGACAACAGAGTCCATGAGTTTACAGGAACAGACGGACCAAGTGGATTGG
 CTTTGAGTTGACGTTTCGTCTGAAGAGAGAAAATGGGGAGTCTGCCCCACCAACATGGCCAGCAGAGCTG
 ATGCAGGGCCTAGCCGATATGTCTTCCAGTCAAGAACACCTTCTGTAGCGGGGACCATGTGTCTTGGC
 ACAGCCCTTTGGATAACAGTGAGTCAAGAATTCAGCACATGCTGCTGACGGAGGACCCACAGATGCAGCC
 TGTGCGGACACCCCTTTGGGTAGTGACTTTCCTCCAGATTGTTGGTGTCTGCACTGAGGAGTTACATTCA
 GCCAACAGTGAACGGGCAGGGCATCCTGGAACTACTACGGACAGTGCCATTGCTGGCGGTCCCTGGC
 TGATAACTGACATGCGGCGGGGAGAAAACATATTTGAGATCGATCCGCACCTGCAACAGGAGAGAGTTGA
 CAAAGGCATTGAGACAGACGGTTCTAACCTGAGCGGCGTCACTGCAAGTGTGCCTGGGATGACCTCAGC
 CGGCCTCCGGAGGATGAAGAGGATAGCCGGAGCATCTGCCTCGGCACACAGCCTCGGAGGCTGTCTGGCA
 AAGACACAGAGCAGATCCGGGAGACCCTGAGGCGGGGACTGGAGATTAACAGCAAACCTGTCTTCCACC
 AATCAATTCTCAGCGACAGAACGGCCTCACCCACGACAGGGCTCCGAGCCGAAGGACAGTTTGGGCAGC
 GACAGCTCCACGGCCATCATCCCCACGAGCTGATCCGCACACGGCAGCTCGAGAGCGTGCATCTAAAT
 TTAACCAAGAGTGGGAGCCCTCATCCCTCTCTGCCTAAGGGGACAGCTCTACATGGCCGGCATTAC
 CTACAAGAGTATCACAGGCGACATGGCCATCACGTTTGTGTCCACGGGAGTGAAGGCGCCTTTGCCACT
 GAGGAACACCCGATGCAGCTCACGGACCTGGTTACAAATTCTGTTGACAGAAGAGTTTGTAGAGAAGA
 TGTGGAGGACTTAGAAGATCTAACCTCTCCAGAGGAATTTAACTTCCCAAAGAGTACAGCTGGCCTGA
 GAAGAACTCAAAGTGTCCATTCTCCCGACGTGGTGTTCGACAGTCCACTGCAC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_015752

Insert Size: 1458 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_015752.3](#), [NP_056567.2](#)

RefSeq Size: 4525 bp

RefSeq ORF: 1458 bp

Locus ID: 24069

UniProt ID: [Q9Z0P7](#)

Cytogenetics: 19 38.85 cM

Gene Summary: Negative regulator in the hedgehog/smoothened signaling pathway (PubMed:16155214, PubMed:16459298). Down-regulates GLI1-mediated transactivation of target genes (PubMed:11960000). Part of a corepressor complex that acts on DNA-bound GLI1 (PubMed:11960000). May also act by linking GLI1 to BTRC and thereby targeting GLI1 to degradation by the proteasome (By similarity). Sequesters GLI1, GLI2 and GLI3 in the cytoplasm, this effect is overcome by binding of STK36 to both SUFU and a GLI protein (PubMed:10531011, PubMed:16459298). Negative regulator of beta-catenin signaling (PubMed:11477086). Regulates the formation of either the repressor form (GLI3R) or the activator form (GLI3A) of the full-length form of GLI3 (GLI3FL) (PubMed:10531011, PubMed:20360384). GLI3FL is complexed with SUFU in the cytoplasm and is maintained in a neutral state (PubMed:10531011, PubMed:20360384). Without the Hh signal, the SUFU-GLI3 complex is recruited to cilia, leading to the efficient processing of GLI3FL into GLI3R (PubMed:10531011, PubMed:20360384). When Hh signaling is initiated, SUFU dissociates from GLI3FL and the latter translocates to the nucleus, where it is phosphorylated, destabilized, and converted to a transcriptional activator (GLI3A) (PubMed:10531011, PubMed:20360384). Required for normal embryonic development (PubMed:16155214, PubMed:16459298). Required for the proper formation of hair follicles and the control of epidermal differentiation (PubMed:16155214, PubMed:16459298, PubMed:23034632). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).