

Product datasheet for **MR222908**

Sufu (NM_015752) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR222908 representing NM_015752
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGCTGCGGCCCTAGCGTCGCCCCCGTCCCGCCGCGCCCGGCCCTCTGGCCCTAGTGCCCTC
 CGGCCTTTGCTTCACTCTTTCCCGGGACTGCACGCCATCTACGAGAGTGTGCGCCGCTTACCCTGA
 CCAGCCGAACCCGCTCCAGGTTACCGCTATCGTCAAGTACTGGTTGGTGGTCCGGACCCCTTGGACTAT
 GTTAGCATGTACAGGAACATGGGGAGTCCCTCTGCCAACATCCCTGAGCACTGGCACTACATCAGCTTTG
 GCCTGAGTGATCTCTATGGTGACAACAGAGTCCATGAGTTTACAGGAACAGACGGACCAAGTGGATTGG
 CTTTGAGTTGACGTTTCGTCTGAAGAGAGAAAAGTGGGGAGTCTGCCCCACCAACATGGCCAGCAGAGCTG
 ATGCAGGGCTAGCCGATATGTCTTCCAGTCAGAGAACACCTTCTGTAGCGGGACCATGTGTCTTGGC
 ACAGCCCTTTGGATAACAGTGAGTCAAGAATTCAGCACATGCTGCTGACGGAGGACCCACAGATGCAGCC
 TGTGCGGACACCCCTTTGGGTAGTGACTTCTCCAGATTGTTGGTGTCTGCACTGAGGAGTTACATTCA
 GCCAACAGTGGAACGGGACGGGATCCCTGGAACACTACGACAGTGCCATTGCTGGCGGTCCCTGGC
 TGATAACTGACATGCGGCGGGGAGAAACATATTTGAGATCGATCCGCACCTGCAAGAGAGAGTTGACAA
 AGGCATTGAGACAGACGGTTCTAACCTGAGCGCGTCACTGCCAAGTGTGCCTGGGATGACCTCAGCCGG
 CCTCCGGAGGATGAAGAGGATAGCCGGAGCATCTGCCTCGGCACACAGCCTCGGAGGCTGTCTGGCAAAG
 ACACAGAGCAGATCCGGGAGACCCTGAGGCGGGGACTGGAGATTAACAGCAAACCTGTCTTCCACCAAT
 CAATTCTCAGCGACAGAACGGCCTACCCACGACAGGGCTCCGAGCCGCAAGGACAGTTTGGGCAGCGAC
 AGCTCCACGGCCATCATCCCCACGAGCTGATCCGCACACGGCAGCTCGAGAGCGTGCATCTAAAATTTA
 ACCAAGAGTCGGGAGCCCTCATCCCTCTCTGCCTAAGGGGACAGACTCCTACATGGCCGGCCCTCACCTA
 CAAGAGTATCACAGGCGACATGGCCATCAGCTTTGTGTCCACGGGAGTGAAGGCCCTTTGCCACTGAG
 GAACACCCGTATGCAGCTCACGGACCCTGGTTACAAATCTGTTGACAGAAGAGTTTGTAGAGAAGATGT
 TGGAGGACTTAGAAGATTAACCTCTCCAGAGGAATTTAACTTCCCAAAGAGTACAGCTGGCCTGAGAA
 GAAACTCAAAGTGCATTCTCCCGACGTGGTGTTCGACAGTCCACTGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222908 representing NM_015752
 Red=Cloning site Green=Tags(s)

MAELRPSVAPGPAAPPASGPSAPPASLFPPLHAIYGEERLL YPDQPNPLQVTAIVKYWLGPDPLDY
 VSMYRNMGSPSANIPEHWHYISFGLSDL YGDNRVHEFTGTDGPSGFGFELTFRLKRETGESAPPTWPAEL
 MQGLARYVVFQSENTFCSGDHVSWHSPLDNSESRIQHMLL TEDPQMOPVTRTPFGVVTFLQIVGVCTEELHS
 AQQWNGQGILELLRTPVPIAGGPWLITDMRRGETIFEIDPHLQERVDKGIETDGSNL SGVSAKCAWDDL SR
 PPEDEEDSRSICLGTQPRRLSGKDTEQIRETLRRGLEINSKPVLPPINSQRQNLTHDRAPSRKDSLGS
 SSTAIIIPHELIRTRQLESVHLKFNQESGAL IPLCLRGRLLHGRHFYKSIITGDMAITFVSTGVEGAFATE
 EHPYAAHGPWLQILL TEEFVEKMLEDLTSPEEFKLPKEYSWPEKCLKVSI LDPVVFDSPLH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

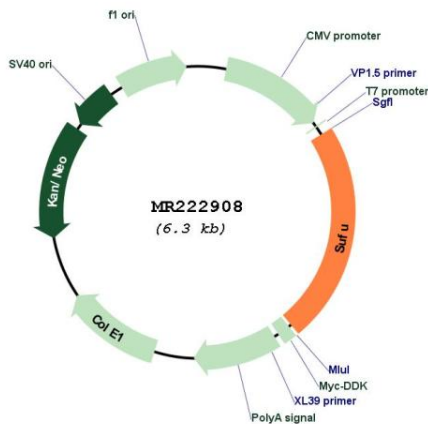
SgfI-MluI

Cytogenetics: 19 38.85 cM

MW: 54.5 kDa

Gene Summary: Negative regulator in the hedgehog/smoothed 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]

Product images:



Circular map for MR222908