

## Product datasheet for **RC230076**

### Suppressor of Fused (SUFU) (NM\_001178133) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Suppressor of Fused (SUFU) (NM_001178133) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Suppressor of Fused
Synonyms:	JBTS32; PRO1280; SUFUH; SUFUXL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC230076 representing NM\_001178133  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGGAGCTGCGGCCTAGCGGCGCCCCGGCCCCACCGCGCCCCGGCCCTGGCCCCACTGCCCCCC  
CGGCCTTCGCTTCGCTCTTTCCCCGGGACTGCACGCCATCTACGGAGAGTGCCGCGCCTTTACCTTGA  
CCAGCCGAACCCGCTCCAGGTTACCGCTATCGTCAAGTACTGGTTGGGTGGCCAGACCCCTTGACTAT  
GTTAGCATGTACAGGAATGTGGGAGGCCCTTCTGCTAACATCCCCGAGCACTGGCACTACATCAGCTTCG  
GCCTGAGTGATCTCTATGGTGACAACAGAGTCCATGAGTTACAGGAACAGATGGACCTAGTGGTTTTGG  
CTTTGAGTTGACCTTTCGTCTGAAGAGAGAAAAGTGGGAGTCTGCCCCACCAACATGGCCCCGAGAGTTA  
ATGCAGGGCTTGGCAGATACGTGTTCCAGTCAGAGAACACCTTCTGCAGTGGGACCATGTGCTCTGGC  
ACAGCCCTTTGGATAACAGTGAGTCAAGAATTCAGCACATGCTGCTGACAGAGGACCCACAGATGCAGCC  
CGTGCAGACACCCCTTTGGGTAGTTACCTTCTCCAGATCGTTGGTGTCTGCACTGAAGAGCTACACTCA  
GCCCAGCAGTGAACGGGACGGGATCCTGGAGCTGCTGCGGACAGTGCCTATTGCTGGCGGCCCTGGC  
TGATAACTGCATGCGGAGGGGAGAGACCATATTTGAGATCGATCCACACCTGCAAGAGAGAGTTGACAA  
AGGCATCGAGACAGATGGCTCCAACCTGAGTGGTGTGAGTCCAAAGTGTGCTGGGATGACCTGAGCCGG  
CCCCCGAGGATGACGAGGACAGCCGGAGCATCTGCATCGGCACACAGCCCCGGCGACTCTCTGGCAAAG  
ACACAGAGCAGATCCGGGAGACCCTGAGGAGAGGACTCGAGATCAACAGCAAACCTGTCTTCCACCAAT  
CAACCTCAGCGGCAGAAATGGCCTCGCCACGACCGGGCCCCGAGCCGCAAAGACAGCCTGGAAGTGAC  
AGCTCCACGGCCATCATTCCCCATGAGCTGATTCGACGCGGCAGCTTGGAGCGTACATCTGAAATTCA  
ACCAGGAGTCCGGAGCCCTCATTCTCTGCTAAGGGGCAGGCTCCTGCATGGACGGCACTTTACATA  
TAAAAGTATCACAGGTGACATGGCCATCACGTTTGTCTCCACGGGAGTGAAGGCCCTTTGCCACTGAG  
GAGCATCCTTACGCGCTCATGGACCCTGGTTACAACCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>RC230076 representing NM\_001178133  
Red=Cloning site Green=Tags(s)

MAELRPSGAPGPTAPPAPGPTAPPAFASLFPPGLHAIYGECRRLYPDQPNPLQVTAIVKYWLGPDPLDY  
VSMYRNVGSPSANIPEHWHYISFGLSDLYDNRVHEFTGTDGPGSGFGFELTFRLKRETGESAPPTWPAEL  
MQGLARYVQSENTFCSGDHVSWHSPLDNSESRIQHMLLTEDPQMOPVQTPFGVVTFQLIVGVCTEELHS  
AQQWNGQGIPELLRTVPIAGGPWLITDMRRGETIFEIDPHLQERVDKGIETDGSNL SGVSAKCAWDDL SR  
PPEDEDSRSICIGTQPRRLSGKDTEQIRETLRRGLEINSKPVLPPINPQRQNGLAHDRAPSRKDSLESD  
SSTAIIPHELIRTRQLESVHLKFNQESGALIPLCLRGRLLHGRHFTYKSITGDMAITFVSTGVGEGAFATE  
EHPYAAHGFWLQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

## Chromatograms:

[https://cdn.origene.com/chromatograms/mk8059\\_e10.zip](https://cdn.origene.com/chromatograms/mk8059_e10.zip)

## Restriction Sites:

SgfI-MluI

**Cloning Scheme:**

**ACCN:** NM\_001178133

**ORF Size:** 1299 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\\_001178133.2](#)
**RefSeq ORF:** 1302 bp

**Locus ID:** 51684

**UniProt ID:** [Q9UMX1](#)
**Cytogenetics:** 10q24.32

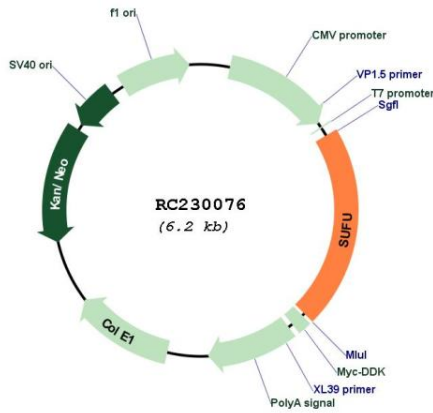
**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer

**MW:** 48.4 kDa

**Gene Summary:** The Hedgehog signaling pathway plays an important role in early human development. The pathway is a signaling cascade that plays a role in pattern formation and cellular proliferation during development. This gene encodes a negative regulator of the hedgehog signaling pathway. Defects in this gene are a cause of medulloblastoma. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

**Product images:**



Circular map for RC230076