

## Product datasheet for **RG230076**

### 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:	TurboGFP
Symbol:	Suppressor of Fused
Synonyms:	JBTS32; PRO1280; SUFUH; SUFUXL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230076 representing NM_001178133 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAGCTGCGGCCTAGCGGCGCCCCGGCCCCACCGCGCCCCGGCCCTGGCCCGACTGCCCCCC  
CGGCCTTCGCTTCGCTCTTTCCCGGGACTGCACGCCATCTACGGAGAGTGCCGCCGCTTTACCTGA  
CCAGCCGAACCCGCTCCAGGTTACCGCTATCGTCAAGTACTGGTTGGGTGGCCAGACCCCTTGACTAT  
GTTAGCATGTACAGGAATGTGGGAGCCCTTCTGCTAACATCCCCGAGCACTGGCACTACATCAGCTTCG  
GCCTGAGTGATCTCTATGGTACAACAGAGTCCATGAGTTTACAGGAACAGATGGACCTAGTGGTTTTGG  
CTTTGAGTTGACCTTTTCGCTGAAGAGAGAACTGGGGAGTCTGCCCCACCAACATGGCCCCGAGAGTTA  
ATGCAGGGCTTGGCAGTACGTGTTCCAGTCAGAGAACACCTTCTGCAGTGGGGACCATGTGTCCTGGC  
ACAGCCCTTTGGATAACAGTGAAGTCAAGATTCAGCACATGCTGCTGACAGAGGACCCACAGATGCAGCC  
CGTGCAGACACCCCTTTGGGGTAGTTACCTTCTCCAGATCGTTGGTGTCTGCACTGAAGAGCTACACTCA  
GCCCAGCAGTGGAAACGGGAGGGCATCCTGGAGCTGCTGCGGACAGTGCCTATTGCTGGCGGCCCTGGC  
TGATAACTGACATGCGGAGGGGAGAGACCATATTTGAGATCGATCCACACCTGCAAGAGAGAGTTGACAA  
AGGCATCGAGACAGATGGCTCCAACCTGAGTGGTGTGAGTCCAAAGTGTGCTGGGATGACCTGAGCCGG  
CCCCCGAGGATGACGAGGACAGCCGGAGCATCTGCATCGGCACACAGCCCGGCGACTCTGGCAAAG  
ACACAGAGCAGATCCGGGAGACCCTGAGGAGAGGACTCGAGATCAACAGCAAACCTGTCTTCCACCAAT  
CAACCCTCAGCGGCAGAATGGCCTCGCCACGACCGGGCCCCGAGCCGAAAGACAGCCTGGAAAGTGAC  
AGCTCCACGGCCATCATTCCCCATGAGCTGATTCGACGCGGCAGCTTGAGAGCGTACATCTGAAATTCA  
ACCAGGAGTCCGGAGCCCTATTCTCTGCTAAGGGGAGGCTCCTGCATGGACGGCACTTTACATA  
TAAAGTATCACAGGTGACATGGCCATCACGTTTGTCTCCACGGGAGTGGAAAGCGCCTTTGCCACTGAG  
GAGCATCCTTACGCGGCTCATGGACCCTGGTTACAACCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG230076 representing NM\_001178133  
Red=Cloning site Green=Tags(s)

MAELRPSGAPGPTAPPAPGPTAPPAFASLFPPGLHAIYGECRRLYPDQPNPLQVTAIVKYWLGPDPLDY  
 VSMYRNVGSPSANIPEHWHYISFGLSDLYGDNRVHEFTGTDGPGSGFGFELTFRLKRETGESAPPTWPAEL  
 MQGLARYVVFQSENTFCSGDHVSWHSPLDNSESRIQHMLLTEDPQMOPVQTPFGVVTFLLQIVGVCTEELHS  
 AQQWNGQGILELLRTVPIAGGPWLITDMRRGETIFEIDPHLQERVDKGIETDGSNLGVSAKCAWDDLRSR  
 PPEDEDSRSICIGTQPRRLSGKDEQIRETLRRGLEINSKPVLPPINPQRQNGLAHDRAPSRKDSLESD  
 SSTAIIIPHELIRTRQLESVHLKFNQESGALIPLCLRGRLLHGRHFTYKSI TGDMAITFVSTGVEGAFATE  
 EHPYAAHG PWLQL

TRTRPLE - GFP Tag - V

**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 Size:** 1900 bp

**RefSeq ORF:** 1302 bp

**Locus ID:** 51684

**UniProt ID:** [Q9UMX1](#)

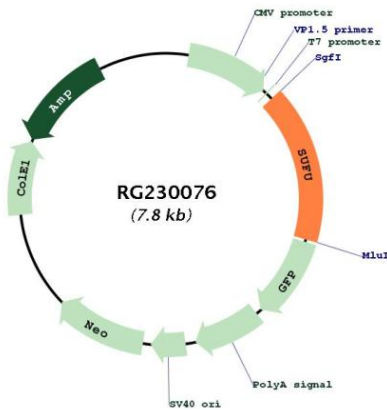
**Cytogenetics:** 10q24.32

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

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

**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 RG230076