

Product datasheet for **RG203381**

RUSF1 (NM_022744) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RUSF1
Synonyms:	C16orf58; RUS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG203381 representing NM_022744
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTGACGACGCGGTTTGGAGACCCCGCTGTGTTCCGAGCAGTTCGGCTCCGGGAGGCACGGGGCT
 GCCGCGCCCGCGGACGGGAGCCTGCACTGGGAGGTCGGGGGCTGGCGCTGGTGGGGGCTCTCCAGGGC
 CTTACGGTCAAACCTGAAGGACGAGATGCGGGCGAAGTGGGGGCTTCCGGGGCCCCCTACCGCCCCCTC
 TCCGGGCTCCAGGCCGTGTTCTGCCTCAGGGCTTCCCTGATAGCGTCAGCCCGGACTACTTGCCCTACC
 AGCTGTGGGATTCGTCGAGGCGTTTGTCTCCAGCCTCTCCGGCTCCCTAGCCACCCAGGCAGCTTGTCT
 GGGCATAGGGGTGGGGAACGCAAAAGCCACTGTTTCAGCTGCCACGGCCACCTGGCTCGTGAAGATTCA
 ACTGGCATGCTGGCCGCATCGTCTTTCCTGGTGAAGGAGCAAACTGGACTGCAATGCCAAGCAGT
 GGAGGCTTTTTGCGGACATCCTCAATGACGTAGCCATGTTCTTGAGATTATGGCTCCTGTATGCCAAT
 CTGTTTCACCATGACCGTCTCCACCAGCAACCTAGCCAAGTGCATCGTGTGTTGCTGGTGGGGCCACT
 CGGGCTGCCCTGACCGTGCACCGGCTCGGAGGAACAACATGGCTGACGTGTACGCCAAGGACAGCAGCC
 AGGAGACGCTGGTGAACCTGGCGGGGCTCTTGGTCAGCCTCCTGATGCTCCCTCTGGTGTACGGTTGCC
 TGGCTTCAGCCTTGGATGTTTCTTCTCTCACTGCCCTCCACATCTACGCCAACTACCGCGCGGTCCGA
 GCCCTGGTCATGGAGACCTGAACGAAGGCCGGCTCCGGCTGGTCTGAAGCACTACCTTCAGAGGGGAG
 AGGTACTCGACCCAACCTGCAGCCAATCGCATGGAGCCGCTGTGGACAGGTTTCTGGCCAGCTCCGCTCTCT
 ATCCCTGGGGGTCCCTTACACCGCTTGGTCTCCAGTGTCTTGTAGCTGCAGCAGCTGGTTGAGGGGCAC
 CAAGAATCTACCTCTCTGCTGGGACAGTCACAAAACAGGTACAGGTAGTTCTGAACAGAGGCGAG
 GCCCAAGACCATCCTAAGGGCCGCCACATGGGCTGATGCTTGGGGCCCTGCAGGGAGATGGACCCCT
 TCCAGCAGAGCTGGAGGAGCTGAGGAACCGGTGCGGGCAGGTCCTAAGAAAGAGAGCTGGGTCTGCTGTC
 AAGGAGACACGAAGTGTGGACATGCTGTTCCCAAAGTTCTTGAAGGACTGCAGGATGCCGGCTGGA
 AGACCGAGAAGCACCAGCTAGAGGTGGATGAGTGGAGGGCCACATGGCTTCTGTCTCCGAAAAGAAGGT
 CTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

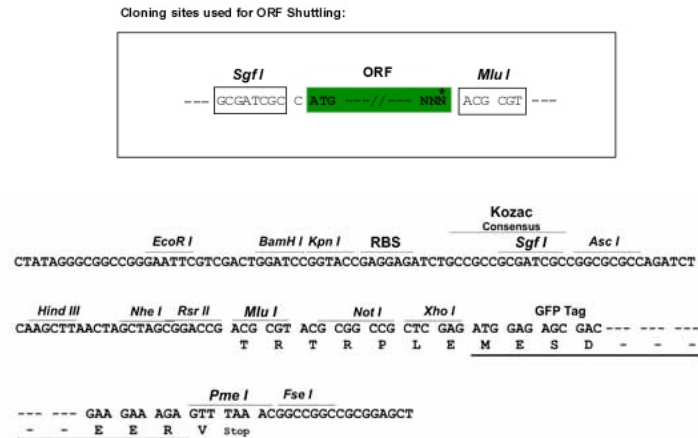
Protein Sequence: >RG203381 representing NM_022744
 Red=Cloning site Green=Tags(s)

MADDAGLETPLCSEQFGSGEARGCRAAADGSLQWEVGGWRWWGLSRAFTVKPEGRDAGEVGASGAPSPPL
 SGLQAVFLPQGFDPDSVSPDYLPYQLWDSVQAFASSLSGLATQAVLLGIGVGNKATVSAATATWLKDS
 TGMLGRIVFAWWKSKLDCNAKQWRLFADILNDVAMFLEIMAPVCPICFMTVSTSNLAKCIVSVAGGAT
 RAALT VHQARRNNMADVSADSSQETLVNLAGLLVSLMLPLVSGCPGFSLGCFFFLTALHIYANYRAVR
 ALVMETLNEGRLRLVLKHYLQRGEVLDPTAANRMEPLWTGFWPAPSLSLGVPLHRLVSSVFELQQLVEGH
 QESYLLCWDQSQNQVVLNQKAGPKTILRAATHGLMLGALQGDGPLPAELEELRNRVRAGPKKESWVVV
 KETHEVLDMLFPKFLKGLQDAGWKEKHQLEVDEWRATWLLSPEKKVL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022744

ORF Size: 1404 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_022744.1](#), [NP_073581.1](#)

RefSeq Size: 2760 bp

RefSeq ORF: 1407 bp

Locus ID: 64755

UniProt ID: [Q96GQ5](#)

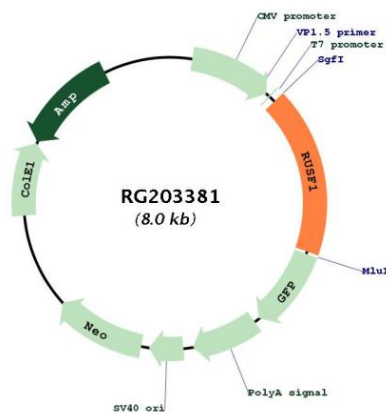
Cytogenetics: 16p11.2

Domains: DUF647

Protein Families: Transmembrane

Gene Summary: This gene encodes a putative transmembrane protein containing a conserved DUF647 domain that may be involved in protein-protein interaction. The encoded protein is related to a plant protein that participates in ultraviolet B light-sensing during root morphogenesis. [provided by RefSeq, Feb 2013]

Product images:



Circular map for RG203381