

## Product datasheet for **RG202654**

### WIPI2 (NM\_015610) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WIPI2 (NM_015610) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WIPI2
Synonyms:	ATG18B; Atg21; CGI-50; IDDSSA; WIPI-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG202654 representing NM\_015610  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACCTGGCGAGCCAGAGCGGGAGGCCGGCGCCGAGCTGCTCTTCGCCAACTTCAACCAGGACA  
 ACACAGAAGTGAAGGGGCATCAAGAGCAGCTGGTCTTGCCGTCGCGCTGTTGTCTGGCCCTAGCTGT  
 TGGTAGTAAGTCCGGTTATAAATTTTTCTCCCTTTCTTCTGTGGATAAGCTGGAACAGATCTATGAATGC  
 ACCGATACGGAAGATGTGTGCATTGTAGAGAGATTGTTCTCCAGCAGCCTAGTGGCCATCGTGAGCCTTA  
 AAGCACCAAGGAAGCTAAAGGTTTGCCACTTTAAGAAGGGAAGTGAAGTCTGCAACTACAGCTACTCCAA  
 CACGATTCTGGCTGTGAAGCTCAACAGGCAGAGGCTGATAGTATGCCTGGAGGAGTCCCTGTACATCCAC  
 AACATTCGGGACATGAAGGTGCTGCATACGATCAGGGAGACGCCTCCAAACCCTGCAGGCCTGTGTGCGC  
 TGTCATCAACAACGACAACCTGCTACTTGGCGTACCCAGGGAGCGGACCATCGGAGAGGTGCAGGTCTT  
 CGATACCATTAATTTGAGAGCTGCAAAACATGATTCGGCTCACGACAGTCTTTAGCGGCACTGGCCTTT  
 GACGCAAGTGGAACTAAACTTGCCACGGCTTCGGAGAAGGGGACCGTGATTAGGGTATTTCCATTCCAG  
 AAGGACAAAACTCTTTGAGTTTCGGAGAGGAGTAAAGAGGTGCGTGAGCATCTGCTCCCTGGCCTTCAG  
 CATGGACGGCATGTTCTCTCCGCTCCAGCAACTGAGACCGTGCACATCTTCAAACCTCGAGACTGTG  
 AAAGAAAAACCCCGAGGAGGCCACCCTGGACCGGTACTTCGGGAAAGTGCTCATGGCCTCCACCA  
 GCTACCTGCCTTCCCAAGTGACAGAAATGTTCAACCAGGGCAGAGCCTTCGCCACGGTCCGCCTGCCATT  
 CTGCGGCCACAAAACATCTGCTCGCTAGCCACAATTGAGAAGATCCCGCGGTTGTTGGTGGGTGCCGCC  
 GACGGGTACCTGTACATGTACAACCTGGACCCCGAGGAGGGCGGAGTGTGCCCTGATGAAGCAGCACC  
 GGCTGGACGGCAGTCTGGAACGACCAATGAGATCTTGGACTCTGCCTCTCACGACTGCCCTTAGTCCAC  
 TCAGACATACGGCGCAGCTGCAGGAAAAGTACTTACGTGCCTTATCCCAACGAGACTTGCCTACACA  
 GACGACCTGGGTGCTGTGGGTGGCGCTGCCTGGAGGACGAGGCCAGCGCCTGCCTGGATGAGGACA  
 GCGAGCACCCGCCATGATTCTTCGGACTGAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG202654 representing NM\_015610  
 Red=Cloning site Green=Tags(s)

MNLSQSGEAGAGQLLFANFNQDNTEVKGASRAAGLRRAVVWSLAVGSKSGYKFFSLSSVDKLEQIYEC  
 TDTEDEVCIIVERLFFSSSLVAIVSLKAPRKLKVCHFVKKGTETICNYSYSNTILAVKLNQRILIVCLEESLYIH  
 NIRDMKVLHTIRETTPNPAGLICALSINNDNCYLAYPGSATIGEVQVFDITNLRAANMIPAHDSPLAALAF  
 DASGTLATASEKGTIVIRVFSIPEGQKLFERRGVKRCVSI CSLAFSMDGMFLSASNTETVHIFKLETV  
 KEKPPEEPTTWTGYFGKVLMASTSYLPSQVTEMFNQGRAFATVRLPFCGHKNICSLATIQLIPRLLVGAA  
 DGYLYMYNLDPQEGGECALMKQHRLDGSLETTNEILDSASHDCPLVTQTYGAAAGKGYVPSPTRLAYT  
 DDLGAVGGACLEDEASALRLDEDESEHPPMILRTD

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_015610

**ORF Size:** 1362 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\\_015610.2](#), [NP\\_056425.1](#)

**RefSeq Size:** 4489 bp

**RefSeq ORF:** 1365 bp

**Locus ID:** 26100

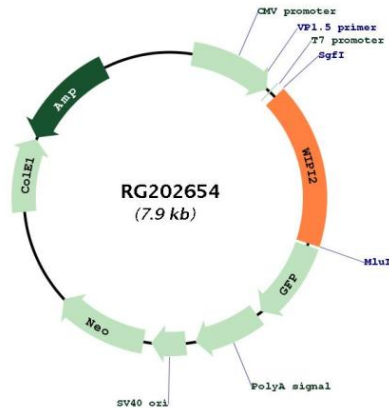
**UniProt ID:** [Q9Y4P8](#)

**Cytogenetics:** 7p22.1

**Domains:** WD40

**Gene Summary:** WD40 repeat proteins are key components of many essential biologic functions. They regulate the assembly of multiprotein complexes by presenting a beta-propeller platform for simultaneous and reversible protein-protein interactions. Members of the WIPI subfamily of WD40 repeat proteins, such as WIPI2, have a 7-bladed propeller structure and contain a conserved motif for interaction with phospholipids (Proikas-Cezanne et al., 2004 [PubMed 15602573]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RG202654