

Product datasheet for **RG203546**

WIPI2 (NM_016003) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WIPI2 (NM_016003) 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)
ORF Nucleotide Sequence:	>RG203546 representing NM_016003 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCTGGCGAGCCAGAGCGGGGAGGCCGGCGCCGGCCAGCTGCTCTTCGCCAACTTCAACCAGGACA
ACACGTCCTAGCTGTTGGTAGTAAGTCCGTTATAAATTTTTCTCCCTTTCTTCTGTGGATAAGCTGGA
ACAGATCTATGAATGCACCGATACGGAAGATGTGTGCATTGTAGAGAGATTGTTCTCCAGCAGCCTAGTG
GCCATCGTGAGCCTTAAAGCACCAAGGAAGCTAAAGTTTCCACTTTAAGAAGGGAAGTCTGATCTGCA
ACTACAGTACTCCAACACGATTCTGGCTGTGAAGCTCAACAGGCAGAGGCTGATAGTATGCCTGGAGGA
GTCCTGTACATCCACAACATTCGGGACATGAAGGTGCTGCATACGATCAGGGAGACGCCTCCAAACCTT
GCAGGCCCTGTGTGCGCTGTCAATCAACAACGACAACCTGCTACTTGGCGTACCCAGGGAGCGGACCATCG
GAGAGGTGCAGGCTTCGATACCATTAATTTGAGAGCTGCAAACATGATTCGGGCTCACGACAGTCCCTTT
AGCGGCACTGGCCTTTGACGCAAGTGAACTAACTTGCACGGCTTCGGAGAAGGGGACCGTGATTAGG
GTATTTTCCATTCAGAAGGACAAAACTCTTTGAGTTTCGGAGAGGAGTAAAGAGGTGCGTGAGCATCT
GCTCCCTGGCCTCAGCATGGACGGCATGTTCTCTCCGCTCCAGCAACACTGAGACCGTGCACATCTT
CAAACCTGAGACTGTGAAAGAAAAACCCCAAGGAGGCCACACCTGGACCGGTTACTTCGGGAAAGTG
CTCATGGCCTCCACAGCTACCTGCCTTCCCAAGTGACAGAAATGTTCAACCAGGCAGAGCCTTCGCCA
CGGTCCGCTGCCATTCTGCGGCCAAAAACATCTGCTCGCTAGCCACAATTCAAGATCCCGCGGTT
GTTGGTGGGTGCGCCGACGGGTACCTGTACATGTACAACCTGGACCCCAAGGAGGGCGGAGGTGTGCC
CTGATGAAGCAGCACCGCTGGACGGCAGTCTGGAACGACCAATGAGATCTTGGACTCTGCCTCTCACG
ACTGCCCTTAGTCACTCAGACATACGGCGCAGCTGCAGGAAAAGGTAATTACGTGCCTTCATCCCCAAC
GAGACTTGCTACACAGACGACCTGGGTGCTGTGGGTGGCGCCTGCCTGGAGGACGAGGCCAGCGCCCTG
CGCTGGATGAGGACAGCAGCACCCGCCATGATTCTTCGGACTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203546 representing NM_016003
 Red=Cloning site Green=Tags(s)

MNLAQSQGEAGAGQLLFANFNQDNTSLAVGSKSGYKFFSLSSVDKLEQIYECTDTEVCIVERLFFSSSLV
 AIVSLKAPRKLKVCHFVKGTEICNYSYSNTILAVKLNQRQLIVCLEESLYIHNIRDMKVLHTIRETPNP
 AGLCAL SINNDNCYLAYPGSATIGEVQVFDITINLRAANMIPAHDSPLAALAFDASGTKLATASEKGTVIR
 VFSIPEGQKLFEFRRGVKRCVSI CSLAFSMDGMFLSASSNTETVHIFKLETVKEKPPPEPTTWTGYFGKV
 LMASTSYLPSQVTEMFNQGRAFATVRLPFCGHKNICSLATI QKIPRLLVGAADGYLYMYNLDPQEGECA
 LMKQHRLDGSLETTNEILDSASHDCPLVTQTYGAAAGKGTYPSSPTRLAYTDDL GAVGGACLEDEASAL
 RLDEDESEHPPMILRTD

TRTRPLE - GFP Tag - V

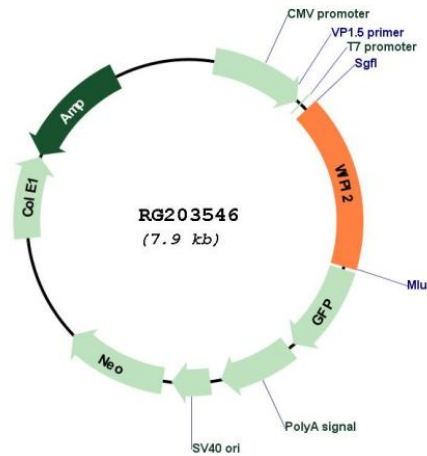
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_016003

ORF Size:	1308 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:	<ol style="list-style-type: none">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_016003.2 , NP_057087.2
RefSeq Size:	4435 bp
RefSeq ORF:	1311 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]