

Product datasheet for **MG207108**

Wipi2 (NM_178398) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wipi2 (NM_178398) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wipi2
Synonyms:	1110018O08Rik; 2510001110Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207108 representing NM_178398
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCTGGCGAGCCAGAGCGGAGAGGCCGGCGCCGAGCTGCTGTTTCGCCAACTTCAACCAGGATA
 ACACGTCCTAGCTGTTGGTAGTAAGTCCGGGTATAAGTTTTCTCCCTTCTTCTGTGGATAAGCTGGA
 ACAGATCTATGAATGCACTGACACTGAAGATGTCTGCATTGTGGAGAGATTGTTCTCAAGCAGCTTGGTG
 GCCATTGTGAGCCTCAAAGCTCCAGGAAGCTGAAGGTTTCCATTTTAAGAAGGGAAGCTGAGATATGCA
 ACTACAGCTACTCCAACACTATCCTGGCTGTGAAGCTGAACAGGCAGCGGCTCATTGTGTGTCTGGAAGA
 GTCGCTTACATACACAACATCCGGGACATGAAGTACTTCATACCATCCGAGAGACACCCCAAACCT
 GCAGGCTGTGTGCACTGTCAATAAACAATGACAAGTCTACTTGGCGTATCCAGGGAGTGCAGCATTG
 GAGAGGTGCAAGTCTTCGACACCATTAAGTGTGAGAGCTGCAAACATGATCCAGCTCATGATAGTCCCTT
 AGCAGCCCTGGCTTTTGTGCAAGTGGGACCAAGCTTCCACTGCTTCTGAGAAGGGGACTGTGATTCCGG
 GTTTTTCCATTCCAGAGGGACAGAAGCTGTTTGAAGTTCAGGAGAGGAGTGAAGAGGTGTGTGAGCATCT
 GCTCCCTGGCCTTCAGCATGGACGGCATGTTCTCTCCGCATCCAGCAACACCGAAACAGTGACATCTT
 CAAACTTGAGGCTGTGAGGGAAAAACCTCCGGAAGAGCCACCACCTGGACTGGCTACTTTGGGAAGGTT
 CTCATGGCATCTACCAGCTACCTGCCCTCACAAGTGACAGAAATGTTCAACCAGGGCAGGGCCTTCGCCA
 CTGTCCGCTGCCATTCTGTGGCCACAAAAACATCTGCTCACTAACCAATTCAGAAGATCCCACGGTT
 GCTGGTAGGAGCATCAGATGGCTATTTGTACATGTACAACCTGGACCCAGGAGGGAGGCGAGTGTGCG
 CTGATGCGTCAAGCAGGCTTGTGGCAGTATGGAGACGACAGTGAATCGTAGACTCTGCATCTCATG
 ACTGCCCTTAGCAACACAGACGTACGGCACAGCAGCTGCCAAAGTGCCTATGTGCCCTGTCCCCAC
 AAGACTTGGGAAAAGGGCAGGACGCCAACTTAGAAGCCTACACAGATGACCTGGGTGCTGTGGGTGTGCA
 TGCTAGAGGATGAAGCCAGCGCTCTGCCCTGGATGAAGACAGCGAACATCCTCCCATGATTCTCCGGA
 CTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207108 representing NM_178398
 Red=Cloning site Green=Tags(s)

MNLSQSGEAGAGQLLFANFNQDNTSLAVGSKSGYKFFSLSSVDKLEQIYECTDTEDEVCIIVERLFSSSLV
 AIVSLKAPRKLKVFHFKGTEICNYSYSNTILAVKLNQRQLIVCLEESLYIHNIRDMKVLHTIRETPNP
 AGLCAL SINNDNCYLAYPGSASIGEVQVFDITINLRAANMIPAHSPLAALAFDASGKLTASEKGTVIR
 VFSIPEGQKLFERRGVKRCVSI CSLAFSMDGMFLSASSNTETVHIFKLEAVREKPPPEPTTWTGYFGKV
 LMASTSYLPSQVTEMFNQGRAFATVRLPFCGHKNICSLTTIQIPRLLVGASDGYLYMYNLDPQEGGECA
 LMRQHRLDGSMETTSEIVDSASHDCPLATQTYGTA AAKGAYVPSPTRLGKGQDANLEAYTDDLGA VVGA
 CLEDEASALRLDEDESEHPPMILRTD

TRTRPLE - GFP Tag - V

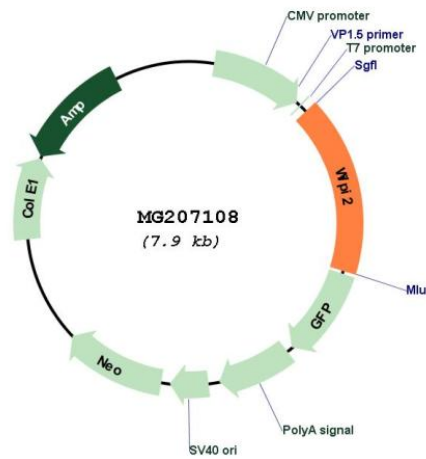
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178398

ORF Size: 1335 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_178398.4 , NP_848485.1
RefSeq Size:	3949 bp
RefSeq ORF:	1338 bp
Locus ID:	74781
UniProt ID:	Q80W47
Cytogenetics:	5 G2
Gene Summary:	Component of the autophagy machinery that controls the major intracellular degradation process by which cytoplasmic materials are packaged into autophagosomes and delivered to lysosomes for degradation. Involved in an early step of the formation of preautophagosomal structures. Binds and is activated by phosphatidylinositol 3-phosphate (PtdIns3P) forming on membranes of the endoplasmic reticulum upon activation of the upstream ULK1 and PI3 kinases. Once activated, WIPI2 recruits at phagophore assembly sites the ATG12-ATG5-ATG16L1 complex that directly controls the elongation of the nascent autophagosomal membrane.[UniProtKB/Swiss-Prot Function]