

Product datasheet for **MC215915**

Wipi2 (NM_178398) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wipi2 (NM_178398) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Wipi2
Synonyms:	1110018O08Rik; 2510001110Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC215915 representing NM_178398
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCTGGCGAGCCAGAGCGGAGAGGCCGGCGCCGAGCTGCTGTTTCGCCAACTTCAACCAGGATA
 ACACGTCCCTAGCTGTTGGTAGTAAGTCCGGGTATAAGTTTTCTCCCTTCTTCTGTGGATAAGCTGGA
 ACAGATCTATGAATGCACTGACACTGAAGATGTCTGCATTGTGGAGAGATTGTTCTCAAGCAGCTTGGTG
 GCCATTGTGAGCCTCAAAGCTCCAGGAAGCTGAAGGTTTGCATTTTAAAGAGGGAAGTGAAGATATGCA
 ACTACAGCTACTCCAACACTATCCTGGCTGTGAAGCTGAACAGGCAGCGGCTCATTGTGTGTCTGGAAGA
 GTCGCTTACATACACAACATCCGGGACATGAAGTACTTCATACCATCCGAGAGACACCCCAACCTT
 GCAGGCTTGTGTGCACTGTCAATAAACAATGACAAGTCTACTTGGCGTATCCAGGGAGTGCAGCATTG
 GAGAGGTGCAGGCTTCGACACCATTAAGTGTGAGAGCTGCAAACATGATCCAGCTCATGATAGTCCCTT
 AGCAGCCCTGGCTTTTGTGCAAGTGGACCAAGCTTGCCTGCTTCTGAGAAGGGGACTGTGATTCGG
 GTTTTTCCATTCCAGAGGGACAGAAGCTGTTTGAAGTTCAGGAGAGGAGTGAAGAGGTGTGTGAGCATCT
 GCTCCCTGGCCTTCAGCATGGACGGCATGTTCTCTCCGCATCCAGCAACACCGAAACAGTGCACATCTT
 CAAACTTGAGGCTGTGAGGGAAAAACCTCCGGAAGAGCCACCACCTGGACTGGCTACTTTGGGAAGGTT
 CTCATGGCATCTACCAGCTACCTGCCCTCACAAGTGACAGAAATGTTCAACCAGGGCAGGGCCTTCGCCA
 CTGTCCGCTGCCATTCTGTGGCCACAAAAACATCTGCTACTAACCACAATTCAGAAGATCCCACGGTT
 GCTGGTAGGAGCATCAGATGGCTATTTGTACATGTACAACCTGGACCCCAAGGAGGGAGGCGAGTGTGCG
 CTGATGCGTCAGCACAGGCTTGTGGCAGTATGGAGACGACAGTGAATCGTAGACTCTGCATCTCATG
 ACTGCCCTTAGCAACACAGACGTACGGCACAGCAGCTGCCAAAGGTGCCTATGTGCCCTGTCCCCCAC
 AAGACTTGGGAAAGGGCAGGACGCCAACTTAGAAGCCTACACAGATGACCTGGGTGCTGTGGGTGGTGCA
 TGCCATAGAGGATGAAGCCAGCGCTCTGCCCTGGATGAAGACAGCGAACATCCTCCCATGATTCTCCGGA
 CTGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_178398

Insert Size: 1338 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_178398.4](#), [NP_848485.1](#)

RefSeq Size: 3913 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]