

## Product datasheet for **RN209953**

### Wipi2 (NM\_001007615) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wipi2 (NM_001007615) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Wipi2
Synonyms:	MGC94226
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN209953 representing NM\_001007615  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAACCTGGCAAGCCAGAGCGGAGAGGCCGGCGCCGAGCTGCTGTTCCGCAACTTCAACCAGGATA  
ACACGTCCCTAGCTGTTGGTAGTAAGTCCGGGTATAAGTTTTTCTCCCTATCTTCTGTGGATAAGCTGGA  
ACAGATCTATGAATGCACTGACACCCGAAGATGTCTGCATCGTGGAGAGATTGTTCTCAAGCAGCTTGGTG  
GCCATCGTCAGCCTCAAAGCTCCCAGGAAGCTGAAGGTTTCCCACTTTAAGAAGGGGACTGAGATTTGCA  
ACTACAGCTACTCCAACACCATCTGGCTGTGAAGCTGAACAGGCAGAGGCTCATCGTGTGTCTAGAAGA  
GTCGCTCTATATACACAACATCCGGGACATGAAGTACTTCATACCATCCGAGAGACACCCCGAACCTT  
GCAGGCTTGTGTGCACTGTCAATAAACAATGACAAGTCTACTTGGCGTACCCAGGGAGTGCACCATTG  
GAGAGGTGCAAGTCTTCGACACCATTAAGTGGGCTGCAAACATGATCCAGCTCATGACAGTCCCTT  
AGCAGCCCTGGCTTTTGGCAAGTGGACCAAGCTTCCCACTGCTTCTGAGAAGGGGACTGTGATTCTGA  
GTGTTCTCCATCCAGAGGGACAGAAGCTGTTTGAAGTTCAGGAGAGGAGTGAAAAGGTGTGTGAGCATCT  
GCTCCCTGGCCTTCAGCATGGACGGCATGTTTCTCCGCATCCAGCAACACCGAAACAGTGCACATCTT  
CAAACCTGAAGCCGTGAGGGAAAAACCTCCGGAAGAGCCACCACCTGGACTGGCTACTTTGGGAAGGTT  
CTCATGGCATCTACCAGTACCTGCCCTCACAAGTGACAGAAATGTTCAATCAGGGAAGGGCCTTTGCCA  
CCGTCCGCTGCCATTTTGTGGCCACAAAAACATCTGCTCACTCACCACAATTCAGAAGATCCCGCGATT  
GCTGGTGGGAGCGTCGGATGGTTATTTGTACATGTACAACCTGGACCCCAAGGAGGGCGGAGTGCACC  
CTGATGCGTCAGCACAGGCTTGTGGCAGCATGGAGACGACAGTGAATTTAGACTCTGCATCTCATG  
ACTGCCCTTAGTAACGCAGACATACGGCACAGCAGCTGCCAAAGGTGCCTATGTGCCCTGTCCCCAAC  
AAGACTTGGTAAAGGACAGGACGCCAACTTGGAAAGCTACACCGATGACCTGGGTGCTGTGGGTGGCGCA  
TGCCCTAGAGGATGAAGCCAGCGCTCTACGCCTGGATGAAGATAGTGAACATCCTCCCATGATTCTCCGGA  
CTGACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001007615

**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\\_001007615.1](#), [NP\\_001007616.1](#)

RefSeq Size: 1734 bp

RefSeq ORF: 1338 bp

Locus ID: 288498

UniProt ID: [Q6AY57](#)

Cytogenetics: 12p11

**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]