

Product datasheet for **RR209953**

Wipi2 (NM_001007615) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR209953 representing NM_001007615
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACCTGGCAAGCCAGAGCGGAGAGGCCGGCGCCGAGCTGCTGTTCCGCAACTTCAACCAGGATA
 ACACGTCCTAGCTGTTGGTAGTAAGTCCGGGATAAAGTTTTCTCCCTATCTTCTGTGGATAAGCTGGA
 ACAGATCTATGAATGCACTGACACCGAAGATGTCTGCATCGTGGAGAGATTGTTCTCAAGCAGCTTGGTG
 GCCATCGTCAGCCTCAAAGCTCCAGGAAGCTGAAGGTTTCCACTTTAAGAAGGGGACTGAGATTTGCA
 ACTACAGCTACTCCAACACCATCCTGGCTGTGAAGCTGAACAGGCAGAGGCTCATCGTGTGTCTAGAAGA
 GTCGCTCTATATACACAACATCCGGGACATGAAGTACTTCATACCATCCGAGAGACACCCCGAACCTT
 GCAGGCTTGTGTGCACTGTCAATAAACAATGACAACCTGCTACTTGGCGTACCCAGGGAGTGCACCATTG
 GAGAGGTGCAAGTCTTCGACACCATTAAGTGGGGCTGCAAACATGATCCAGCTCATGACAGTCCCTT
 AGCAGCCCTGGCTTTTGACGCAAGTGGACCAAGCTTCCACTGCTTCTGAGAAGGGGACTGTGATTCTGA
 GTTTCTCCATTCAGAGGGACAGAAGCTGTTTGAAGTTCAGGAGAGGAGTGAAAAGGTGTGTGAGCATCT
 GCTCCCTGGCCTTCAGCATGGACGGCATGTTTCTCTCCGCATCCAGCAACACCGAAACAGTGCACATCTT
 CAAACTTGAAGCCGTGAGGGAAAAACCTCCGGAAGAGCCACCACCTGGACTGGCTACTTTGGGAAGGTT
 CTCATGGCATCTACCAGTACCTGCCCTCACAAGTGACAGAAATGTTCAATCAGGGAAGGGCCTTTGCCA
 CCGTCCGCTGCCATTTTGTGGCCACAAAAACATCTGCTCACTCACCACAATTCAGAAGATCCCGCGATT
 GCTGGTGGGAGCGTCGGATGGTTATTTGTACATGTACAACCTGGACCCCAAGGAGGGCGAGTGGCC
 CTGATGCGTCAGCACAGGCTTGTGGCAGCATGGAGACGACAGTGAATTTGAGACTCTGCATCTCATG
 ACTGCCCTTAGTAACGCAGACATACGGCACAGCAGCTGCCAAAGGTGCCTATGTGCCCTGTCCCAAC
 AAGACTTGGTAAAGGACAGGACGCCAACTTGAAGCCTACACCGATGACCTGGGTGCTGTGGGTGGCGCA
 TGCTAGAGGATGAAGCCAGCGCTCTACGCCTGGATGAAGATAGTGAACATCCTCCCATGATTCTCCGGA
 CTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209953 representing NM_001007615
 Red=Cloning site Green=Tags(s)

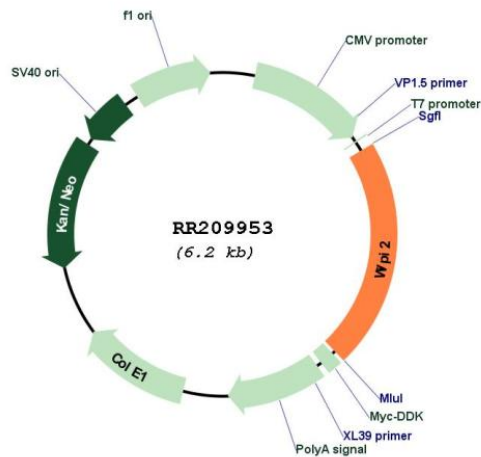
MNLASQSGEAGAGQLLFANFNQDNTSLAVGSKSGYKFFSLSSVDKLEQIYECTDTEIVCIVERLFFSSSLV
 AIVSLKAPRKLKVFCHKKTEICNYSYSNTILAVKLNQRQLIVCLEESLYIHNIRDMLVHTIRETTPNP
 AGLCAL SINNDNCYLAYPGSATIGEVQVFDITNLRAANMIPAHDSPALAFDASGKLATASEKGTVIR
 VFSIPEGQKLEFRRGVKRCVSI CSLAFSMDGMFLSASNTETVHIFKLEAVREKPPPEPTTWTGYFGKV
 LMASTSYLPSQVTEMFNQGRAFATVRLPFCGHKNICSLTTIQIPRLLVGASDGYLYMYNLDPQEGGECA
 LMRQHRLDGSMETTSEIVDSASHDCPLVTQTYGTAAGAYVPSPTRLGKGQDANLEAYTDDLGAVGGA
 CLEDEASALRLDEDESEHPPMILRTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001007615

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:

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

MW: 48.5 kDa

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]