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Product datasheet for MR207108

Wipi2 (NM_178398) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wipi2 (NM_178398) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wipi2
Synonyms:	1110018O08Rik; 2510001I10Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

ORF Nucleotide Sequence:

>MR207108 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCTGGCGAGCCAGAGCGGAGAGGCCGGCGCCGGCCAGCTGCTGTTCGCCAACTTCAACCAGGATA
ACACGTCCCTAGCTGTTGGTAGTAAGTCCGGGTATAAGTTTTTCTCCCTTTCTTCTGTGGATAAGCTGGA
ACAGATCTATGAATGCACTGACACTGAAGATGTCTGCATTGTGGAGAGATTGTTCTCAAGCAGCTTGGTG
GCCATTGTCAGCCTCAAAGCTCCCAGGAAGCTGAAGGTTTGCCATTTTAAGAAGGGAACTGAGATATGCA
ACTACAGCTACTCCAACACTATCCTGGCTGTGAAGCTGAACAGGCAGCGGCTCATTGTGTGTCTGGAAGA
GTCGCTCTACATACACAACATCCGGGACATGAAGGTACTTCATACCATCCGAGAGACACCCCCAAACCCT
GCAGGCTTGTGTGCACTGTCAATAAACAATGACAACTGCTACTTGGCGTATCCAGGGAGTGCGAGCATTG
GAGAGGTGCAGGTCTTCGACACCATTAACTTGAGAGCTGCAAACATGATCCCAGCTCATGATAGTCCCTT
AGCAGCCCTGGCTTTTGATGCAAGTGGGACCAAGCTTGCCACTGCTTCTGAGAAGGGGACTGTGATTCGG
GTGTTTTCCATTCCAGAGGGACAGAAGCTGTTTGAGTTCAGGAGAGGAGTGAAGAGGTGTGTGAGCATCT
GCTCCCTGGCCTTCAGCATGGACGGCATGTTCCTCTCCGCATCCAGCAACACCGAAACAGTGCACATCTT
CAAACTTGAGGCTGTGAGGGAAAAACCTCCGGAAGAGCCCACCACCTGGACTGGCTACTTTGGGAAGGTT
CTCATGGCATCTACCAGCTACCTGCCCTCACAAGTGACAGAAATGTTCAACCAGGGCAGGGCCTTCGCCA
CTGTCCGCCTGCCATTCTGTGGCCACAAAAACATCTGCTCACTAACCACAATTCAGAAGATCCCACGGTT
GCTGGTAGGAGCATCAGATGGCTATTTGTACATGTACAACCTGGACCCCCAGGAGGGAGGCGAGTGTGCG
CTGATGCGTCAGCACAGGCTTGATGGCAGTATGGAGACGACCAGTGAAATCGTAGACTCTGCATCTCATG
ACTGCCCCTTAGCAACACAGACGTACGGCACAGCAGCTGCCAAAGGTGCCTATGTGCCCTCGTCCCCCAC
AAGACTTGGGAAAGGGCAGGACGCCAACTTAGAAGCCTACACAGATGACCTGGGTGCTGTGGGTGGTGCA
TGCCTAGAGGATGAAGCCAGCGCTCTGCGCCTGGATGAAGACAGCGAACATCCTCCCATGATTCTCCGGA
CTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

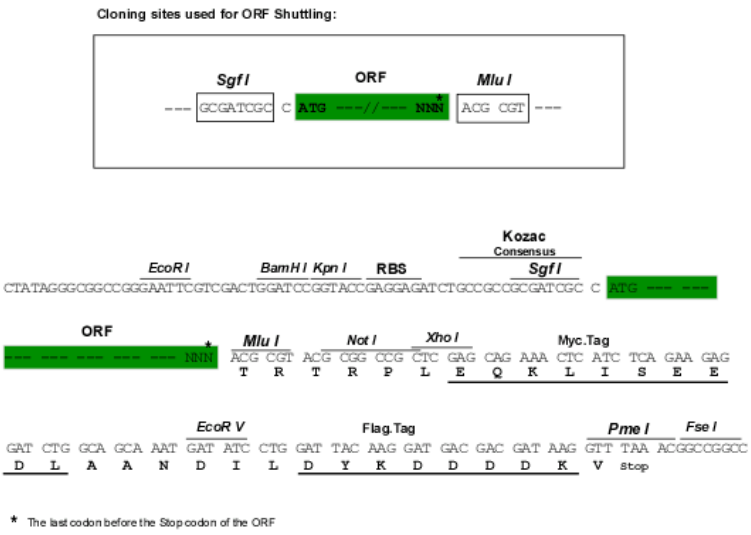
>MR207108 protein sequence
Red=Cloning site Green=Tags(s)

MNLASQSGEAGAGQLLFANFNQDNTSLAVGSKSGYKFFSLSSVDKLEQIYECTDTEDVCIVERLFSSSLV
AIVSLKAPRKLKVCHFKKGTEICNYSYSNTILAVKLNRQRLIVCLEESLYIHNIRDMKVLHTIRETPPNP
AGLCALSINNDNCYLAYPGSASIGEVQVFDTINLRAANMIPAHDSPLAALAFDASGTKLATASEKGTVIR
VFSIPEGQKLFEFRRGVKRCVSICSLAFSMDGMFLSASSNTETVHIFKLEAVREKPPEEPTTWTGYFGKV
LMASTSYLPSQVTEMFNQGRAFATVRLPFCGHKNICSLTTIQKIPRLLVGASDGYLYMYNLDPQEGGECA
LMRQHRLDGSMETTSEIVDSASHDCPLATQTYGTAAAKGAYVPSSPTRLGKGQDANLEAYTDDLGAVGGA
CLEDEASALRLDEDSEHPPMILRTD

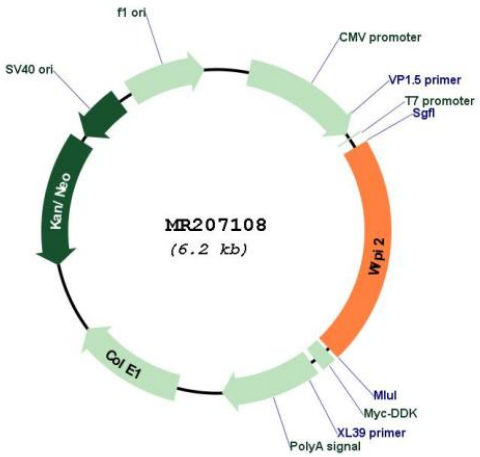
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_178398
ORF Size:	1338 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_178398.4, NP_848485.1
RefSeq Size:	3913 bp
RefSeq ORF:	1338 bp
Locus ID:	74781
UniProt ID:	Q80W47
Cytogenetics:	5 G2
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]