

Product datasheet for MC224146

Magel2 (NM_013779) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Magel2 (NM_013779) Mouse Untagged Clone
Tag: Tag Free
Symbol: Magel2
Synonyms: Mage-l2; NDNL1; nM15; ns7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224146 representing NM_013779
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGCAGCTAAGTACGAATCTGGGGATTCCAGCCCTCCGGAGTCCCCAGTGCCTGCAGTCCATAGCC
 GCCCTACGGTTCTGATGCGGGCTCCGCCTGCTTCTCCCGGGCTCCTCCTGTCCCCTGGGATCCACCTCC
 AGTGGACTTGCAGGCTCCCATGGCTGCTTGGCAGGCTCCTCAACCTGCCTGGGAGGCTCCGGAGGGCCAG
 CTGCCTGCCCCAGTGGCTCAGCTGGCCAGCCTCCTGGTCTAGGGGCCCAATGGTCCAGGCTCCACCGC
 TCGGAGGGGGGATGGCCAAGCCTCCAACCTCTGGAGTCTTGTATGGTCCATCAGCCCCCTCCGGGAGCCCC
 CATGGCCAGTCTTCAACTCCGGGAGTCTGATGCTACATCCTTCTGTACGCGGGGCCCTTTGGTCCAT
 CCTCCTCCCCAGGAACCCCGATGACACACCCTCCCGGGACCTCGATGGCGCACCTCCTCCTCCTCCTC
 CTCCCCCTCCTCCTCCTCCTCCTGCGGACCCAATGACCCACCCACCTCCTCCTGGGACTCCGATGGG
 TCACCATCCTCCTCCTGGGAACCCTATGACCCATCCTCCACCGGGGAACCCGATGGTGCATCCTCCTCACT
 CATGGAGCCCCGATGGTCCATGGGGGACCACATGGAATCCAATGCCGCATGTTCCATTACGGGGACAC
 CGATAGCCCAGCAGCAACTCCAGGAGTCTGATGGCCAGCAGCTGACACCGGGAGTCCGTATGGTCCA
 GCGCCTGCTCCGGGAGCTCCGATGGTCCAGCCACCTCCACAGGCTGCCTTGTATGACCCAGCCTGCACCT
 TCGATTACTCCGATGGCCAAGCCTCCAGGTCTGGTGTCTGATGATCCATCCTCCAGGTGCCAGAGGTC
 CAATCATTAGACTCCAGTATCAGGAGCACAATGGCTCAGACAGTGTGCCCTCCGGGAGGCTCCAGGCTG
 CACTTGGGCCCCACAGGGTCCAGCTTGTATCCTACAAATCCAGTCTCAAGTCATAAGGGCTCCTCCACAG
 GTTCCCTCTGTACCACAAGCCCCCAGGTACAGCTGGCCACACCCCGAGGCTGGCAAGCCACACACCCA
 ACTGGCAGGTGACCCCCAGGGTGGCCAGCAACGCCTTGTACATGGCAGGCTACACAGGTGACCTGGCA
 GGCCCCACAATAGCCTGGCAGGCCACTCAACCTGGGCGCAAGGGCACTCAACCATTCTACTGGTCCAC
 ACACCCATTGACCTGGACCAGTCCATTGCTTCCGAGATACCTCCTATGATCCGTGATCCAACTG
 TGATGAGGCAAGCCCCACCACTGATCCGACAGGTCCTATCAGACCAGCTCCACATGGCATAGCAAGCCA
 GCCTCAGCTGTGGCAGGTCTGCCACCCACCTCCACTGCGGCAGGCTCCACAGGCTCGTCTACTGCTC
 CCGAGGGTACCAGGAACAGGCCAGGTGTCTACAGTACCACCAGTTGCTCAGATACATTTGGTGCCACAGT



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CAGGCCACAGGTGCCCCAGACAGTACTGCCAGCCAACTGTCTATCCCAATTCCTGTACCCCAGGCTGC
 TGCTCAGTCTGCTCCCCGGACTGTGCATTGCCACCCATCATCTGGCAGGCCCCAAAGGCCAGGCCCG
 GTGCCACAGGAGCTCCAGTGCCACAGGAGCTCCCGGTGCCACAGGAGCTCCCGGTGCCACAAGAGGTCC
 CGGTTCCACAGGAGATCCCGGTGCCACAGGAGATCCCGGTGCCACAGGAGCTCCCGGTGCCACAGGAGCT
 CCCCGTGCCACAGGAGCTCCAGTGCCACAAGAGCTCCCGGTGCCACAGGAGCTCCAGTGCCACAGGAG
 CTCCCGGTGCCACAGGAGCTCCCGGTGCCACAGGAGCTCCCGGTGCCATTGGAGTCCAGGAGGTACAGC
 AGGCCAGGAGTGGGCTGGCGGGCACCAAGGTACCTCCTCACTTCTGGCAGCCTGTGTCTGCCAGGA
 GGCCCAGGAGCAGGCCACTCAGATCGCCCATGTGGAGCAGCAGCAGCCCTTTCAGGGAGCTCCAGCCTCC
 TCCAAGGCACTGCAAACCTCAGCTGCCGACCCACCAGGCCAAAGCCTCTGGCTTGACAGGCAGAAGTGCCTT
 CAGTGCAGCTGCAGCCTTCTTGCAAGGCCACTGCCATGTTGCAGGCCAGCCTGGAGCCTCTGCCAC
 ACTGGCAAACCTTCCCCGGGGCTCCACTCGATCAGTATGGTCCATCAGGAGAACCTGGCCCTTCTCT
 CTAGAACCTCGGGGCCCTCTAGGGAACGTAGGGCACCTGCAAGGGACAAAAAGGGTCTCCAAAAGAGC
 GCATGTTCAATGGTGCCACTTTCTGTCTCAAGGGGGCATCAGCATCCAGGGCATACTGCCAACTGC
 CTGGAAAACTTGCTGCCACATCAGAGACCTTCTGCCACCTCAAGGGTCTTCCATCTACCTCTCAT
 TTCCAGCCTGCCTTTCTAATGCCTTTAGAGGTCCATCTGCCGCCTCAGAGAGCCCAAAGTCACTGCCAT
 TTGCTCTGCAGGATCCTTATGCCTGCGTAGAGGCCCTGCCTGCAGTTCCTGGGTCCGATCCAGATGG
 AAATGCCTCATCAGCATGTAAGTCAGTGCCATCTTGATGGTGGCAGCAGCTGCCCCCAGGCAAGT
 GCCACTGCTGCAGAGGCCCTAAGTCTTCAGAGCCGCAAGACGCCCCGGCAAAGCCACCAGGAAGAAGA
 AGCATCTGGAACCCAAAGAAGACAACCTGTGGCCACAGGCTCTCCTCACGTGACTGGCGGGGGCCCGAAC
 CTGGGGCAATCCAGTCACTTCTGACTGGGAGATTCAGAGGGCTATGCAGCTCCTGGGGGACCGGGAAATCC
 CTCTACACTCCGACGGCCCTGAATGACTGGGGTGCCCAACACTTCTAGGATGCCAAGGAGCTTGAGG
 GCCCTAGCACTTACGGGACCAGGAATTCTGTGGTGACTCGGGTGGTCTCAGACATGGATGGCTTCTGA
 GGTCCCAAGCGTCTCTCGGGATCCAGTGTCTCAGGAGACCCTGATAGGGAGAGTCAAGCCCTTATCT
 CCCTTAGATGAGAGAGCAAACGCTTGGTGCAGTTTCTTGGTCAAAGACCAAGCCAAGGTGCCTGTCC
 AGCTCTCGGAGATGGTAAATGTTGTCATCCGAGAATACAAGACGACAGCTTAGACATCATCAACCGTGC
 CAACACTAAGCTGGAGTGACCTTTGGTTGCAACTGAAGGAAGTTGACACCAAAACCCACACTTACATC
 ATCGTCAACAAGATGGCGTACCCTCAGTGAATTTGCTGGCATCTATTTAGAGAGGCCAAAGTTACGCC
 TCCTGATGGTGGTCTTGAGCCTCATTTTATGAAAGGCTACTGTATCAGGGAGAATCTGCTCTTTAGTTT
 TCTGTTCCAGCTAGGGCTGGATGTCCAGGAGACAAGTGGTCTCTCAGAATTACAAAGAAGCTCATACC
 AGTGTGTTTGTGAGACACAGGTACCTAGAGTACAGGCAAATCCCGTTCAGTGCAGCTGCAGAATACGAGC
 TTCTCTGGGGGCCCGGGCATTCTCGAAACCAACAGGGTGCACATCTTGAGATTTTGGCCGCACTCTA
 CGAGAACCAGCCCAGATCTGGTCATGCCAGTACCTTGACTCACTGGCAGAGTTAGAATACAAGGACGCA
 AATGCCCGCCGCAAGAGTCCCATGACAGCGATGATGATGCCACGACCCACCAGCAGTCCCCATCCTC
 ACTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_013779
- Insert Size:** 3855 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_013779.2](#), [NP_038807.4](#)

RefSeq Size: 4662 bp

RefSeq ORF: 3855 bp

Locus ID: 27385

UniProt ID: [Q9QZ04](#)

Cytogenetics: 7 34.37 cM

Gene Summary: Probably enhances ubiquitin ligase activity of RING-type zinc finger-containing E3 ubiquitin-protein ligases, possibly through recruitment and/or stabilization of the Ubl-conjugating enzyme (E2) at the E3:substrate complex. Acts as a regulator of retrograde transport via its interaction with VPS35. Recruited to retromer-containing endosomes and promotes the formation of 'Lys-63'-linked polyubiquitin chains at 'Lys-220' of WASHC1 together with TRIM27, leading to promote endosomal F-actin assembly (By similarity). Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer. Significantly promotes the cytoplasmic accumulation of CLOCK (PubMed:22208286).[UniProtKB/Swiss-Prot Function]