

Product datasheet for **RN205298**

Magi2 (NM_053621) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Magi2 (NM_053621) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Magi2
Synonyms:	Acvrinp1; Acvrip1; S-SCAM
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN205298 representing NM_053621 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAAAGCTTGAAAAGAAAAGCCACTGGACTAGCAAAGTCCACGAGAGTGTCTTGGCAGAAACC
CGGAGGGCCAGCTGGGCTTTGAACTGAAGGGGGCGCCGAAAACGGACAGTTCCTACCTGGGGGAGGT
GAAGCCGGCAAGGTGGCCTATGAAAGCGCAGCAAGTTGGTGTCCGAGGAGCTGCTGCTGGAGGTGAAC
GAGACCCCGTGGCGGGGCTCACCATCAGGGATGTTCTGGCCGTGATCAAACACTGCAAGGACCCCTCC
GGCTCAAGTGTGTCAAGCAAGGAGGAATTGTTGATAAGGATCTTCTGCTACTACCTCAACTTAAGATTTCA
GAAGGGTCTGTTGACCACGAACTACAGCAAATCATCCGTGACAACTCTACCTCCGCACAGTGCCATGC
ACCACAAGGCCACATAAGGAGGGTGAAGTCCCTGGAGTGGACTACATTTTCATAACCGTTGAGGACTTTA
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GCCTCCAGCTGAACCAGCACCATTATTATTAATGTAACAGATCAGATACTCCCGGAGCTACTCCAAGT
GCTGAGGGGAAGCGAAAAGAAATAAGTCTGTGACCAACATGGAGAAAGCAAGTATAGAGCCACCGGAGG
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CACAGTTTGAAAACCTGTCTGGAAGCAAAAAGGAAAGCTACAGCAACATAACATGCCCCACACAGAAT
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AAGGGAACATTCTCAGCACCACCTCAAAAAGAGCAACATGGGCTTTGGGTTTACGATCATCGGTGGAG
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GGAGACAGGTGATGTCATTGTCTATATTAATGAAGTTTGTGTCCTTGGACACACTCATGCAGATGTTGTC
AACTTTTCCAGTCTGTTCTATTGGTCAGAGCGTCAACCTGGTGTGTGTCGTGGCTACCTTTGCCCT



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TTGATCCTGAAGACCCTGCCAACAGCATGGTGCCACCCCTTGCAATAATGGAGAGGCCACCTCCGGTGAT
 GGTCAATGGAAGACATAACTATGAAACATATTTGGAATACATTTCTCGGACCTCAGAGTCGGTCCCAGAT
 ATTACAGACCGGCCACCTCATTCTTTGCACTCCATGCCAGCTGATGGCCAACTAGATGGCACATATCCAC
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 AATCATCCATCGAGGAGTTTCTTTTCTCCATGGAAAACCTCAAAGCCTATGGTGGACCGGTGGGAGAAC
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 GAAATCGAGAGCCATTTATGAAAGTAGGCAACAAGTGCCACCCAGGACCAGTTTTCGAATGGATTCTCT
 GGTCCAGATTATAAGGAATTGGATGTTACCTTCGGAGGATGGAGTCTGGATTTGGCTTCAGAATCCTTG
 GGGGAGACGAGCCGGACAGCCTATTTTGTGCGAGCTGTATTGCGATGGGCTCAGCTGACAGAGACGG
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 CAGTCTATCATCAACATGCCTCACGCTGACATCGTGAAGCTCATCAAGGATGCGGGTCTCAGCGTCAACC
 TCCGCATATTCCTCAGGAGGAGCTCAACAACCAACATCAGCACCCAGTTCAGAGAAGCAGAGCCCCAT
 GGCCCAGCAGCAGCCCTCTGGCCCAGCAGCACAGCCCTCTGGCCCAGCCGAGCCAGCCACCCCAAC
 AGCCAGTTGCACAGCCAGCTCCTCCTCAACCTCTCCAGCTGCAAGGACATGAAAATAGTTACAGGTCAG
 AAGTTAAAGCAAGGCAAGATGTGAAGCCAGACATCCGGCAGCCGCTTACAGACTACAGGCAGCCGCC
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 TGGAGAAAGGAGCCAAAGGATTTGGATTGAGTCCCGTGGAGGAAGGGAATACAAAATGGATCTGTACGT
 GTTGAGATTGGCGGAGGATGGGCCAGCCATAAGGAACGGCAGGATGAGGGTGGGAGATCAGATCATCGAA
 ATAAATGGGAAAGCACACGAGACATGACCACGCCAGAGCAATAGAACTCATCAAGTGGGAGGAAGAA
 GAGTGCAGTTGCTGCTGAAACGAGGCACGGGGCAGGTCCAGAGTATGGAATGGTGCCTTCCAGCCTCTC
 CATGTGCATGAAAAGTGACAAGCATGGGTCCCATATTTCTACTTACTGGCCACCCAAAGACACGACG
 AACCTACGCTGGAGCGCTGCCCTGCCGCGCCCCAGGCTGCCGGAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_053621
- Insert Size:** 3834 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_053621.1](#), [NP_446073.1](#)

RefSeq Size: 4767 bp

RefSeq ORF: 3834 bp

Locus ID: 113970

UniProt ID: [O88382](#)

Cytogenetics: 4q11

Gene Summary: Seems to act as scaffold molecule at synaptic junctions by assembling neurotransmitter receptors and cell adhesion proteins. May play a role in regulating activin-mediated signaling in neuronal cells. Enhances the ability of PTEN to suppress AKT1 activation (By similarity). Plays a role in nerve growth factor (NGF)-induced recruitment of RAPGEF2 to late endosomes and neurite outgrowth.[UniProtKB/Swiss-Prot Function]