

## Product datasheet for MR217977

### Magi2 (NM\_001170746) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Magi2 (NM\_001170746) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Magi2  
**Synonyms:** Acvri1; Acvrip1; Acvrip1; AIP-1; Magi-2; mKIAA0705; S-SCAM  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR217977 representing NM\_001170746  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGTCCAAAAGCTTGAAAAAGAAAAGCCACTGGACTAGCAAAGTCCACGAGAGTGTTCATTGGCAGGAACC  
 CGGAGGGCCAGCTGGGCTTTGAACTGAAGGGGGCGCGGAAAACGGACAGTTCCTACCTGGGGGAGGT  
 GAAGCCGGCAAGGTGGCCTATGAAAGCGGCAGCAAGTTGGTGTCCGAGGAGCTGCTGCTGGAGGTGAAC  
 GAGACCCCGTGGCGGGCTCACCATCAGGGACGTTCTGGCCGTGATCAAACACTGCAAGGACCCCTCC  
 GGCTCAAGTGTGTCAAGCAAGGAGGAATTGTTGATAAAGACCTTCGTCACTACCTCAACCTAAGATTTCA  
 GAAGGGTTCTGTTGACCATGAACTACAGCAAATCATCCGTGACAACCTCTACCTCCGACAGTGCCATGC  
 ACCACAAGGCCACATAAGGAGGGTGAGGTCCTGGAGTGGACTACATTTTCATAACCGTTGAGGAGTTTA  
 TGGAAATGGAGAAAAGTGGTGTCTCTCTAGAAAGCGGGACCTATGAAGACAACTACTACGGTACCCCGAA  
 GCCTCCAGCTGAACCAGCACCATTATTAATGTAAACAGACCAGATACTTCGGGGAGCTACTCCAAGTGTCT  
 GAGGGGAAGCGGAAAAGAAATAAGTCAGTGACCAACATGGAGAAAAGCAAGTATAGAGCCTCCAGAGGAGG  
 AAGAAGAAGAAAGGCCTGTAGTCAATGGAACGGCGTGGTCATAACCCAGAAATCCAGTGAACATGAAGA  
 CAAAAGTGCAGGTGCCTCAGGGGAGACACCCTCCAGCCTTACCCTGCACCCGTGTACAGCCAGCCCGAA  
 GAGCTCAAGGACCAGATGGACGATACAAAGCCAACAAAGCCTGAGGAGAACGAGGACTGTGATCCATTGC  
 CTGATAACTGGGAAATGGCTACACAGAGAAGGGGGAAGTCTACTTCATTGACCATAACACAAAAGACAAC  
 ATCATGGCTGGATCCGCGACTTGCAGAAAAGGCTAAACCTCCAGAAGAGTGCAAAGAAAATGAGCTTCCA  
 TATGGCTGGGAAAAAATCGATGATCCTATATATGGCACTTACTATGTTGACCACATAAATAGAAGAACAC  
 AGTTTGAAAACCTGTCTGGAAGCAAAAAGGAAGCTACAGCAACATAACATGCCCCACACAGAACTTGG  
 AGCAAAGCCCCTGCAGGCCCCAGGTTTCCGAGAAAAGCCACTCTTCAACCCGGGATGCATCCAGTTGAAG  
 GGAACGTTCTCAGCACCACCCTCAAAAAGAGCAACATGGGCTTTGGGTTTACCATCATTGGTGGAGACG  
 AGCCGGATGAGTTTCTACAGGTGAAAAGTGTGATCCCGGATGGGCTGCCGCACAGGATGGGAAAATGGA  
 GACAGGTGATGTCATTGTCTATATTAATGAAGTTGTGTCCTTGGACACACTCATGCAGATGTTGTCAA



[View online »](#)

CTTTCCAGTCTGTTCTATTGGTCAGAGTGCAACTTGGTGTGTGTCGTGGCTACCCTTTGCCCTTG  
ACCCTGAAGATCCTGCTAACAGCATGGTGCCACCCTTGAATAATGGAGAGGCCACCTCCGGTGATGGT  
CAATGGAAGACATAACTATGAAACATACTTGAATACATTTCTCGGACCTCACAGTCGGTCCCAGATATT  
ACAGACCGGCCACCTCATTCTTTGCACTCCATGCCAGCTGACGGCCAGCTAGATGGCACGTATCCACCAC  
CCGTCCATGACGACAATGTGTCTATGGCTTCGTCTGGAGCCACTAAGCTGAACCTATGACCTTAACCAT  
TGTGAAAGGTGCCAGGGATTTGGCTTTACTATTGCCGACAGTCCCACGGGACAGCGGGTAAACAATC  
CTTGACATTCAGGGATGCCCTGGCTGTGTGAAGGAGACCTCATTGTTGAGATCAACCAACAGAATGTAC  
AGAACCTGAGCCATACAGAAGTAGTGGATATACTTAAGGACTGCCCGTTGGAAGTGAGACTTCTTTAAT  
CATCCATCGAGGAGTTTCTTTTCTCCATGAAAACTCCAAGCCTATGATGGACCGATGGGAGAACCAA  
GGCAGTCCACAAACAAGTTTATCTGCTCCGGCCGTCCCACAGAACCTGCCCTTCCCACCTGCCCTTACA  
GGAGCTCCTTTCTGATTCAACAGAGGCCCTTGACCCACGGAAGCCTGACCCATATGAGCTCTACGAGAA  
ATCGAGAGCCATTTATGAAAGTAGGCAACAAGTCCACCCAGGACCAGTTTTCGAATGGATTCTCTGGT  
CCAGATTATAAGGAAGTGGATGTTACCTTCGGAGGATGGAGTCTGGATTTGGCTTTAGAATCCTGGGG  
GAGATGAACCTGGACAGCCTATTTGATCGGAGCCGTATTGCCATGGGCTCAGCTGACAGAGACGGCCG  
TCTACACCCAGGAGATGAGCTTGTCTATGTGATGGGATCCCAGTGGCTGGCAAGACCCACCGCTATGTC  
ATCGACCTCATGCACCAGCGGCCCGCAATGGGCAGGTTAACCTCACTGTGAGAAGAAAGGTGCTATGTG  
GAGGGGAGCCCTGCCAGAGAATGGGAGGAGTCCAGGCTCTGTATCAACTCACCACAGCTCTCCGCGCAG  
TGACTATGCCACCTACTCCAACAGCAACCACGCGCCCGCCAGCAGCAATGCCTCACCTCCTGAAGGCTTT  
GCCTCACACAGCTTGAGACAGTGTGTGGTCAATCACCGCAAAGAAAACGAAGGGTTTGGCTTCGTCA  
TCATCAGCTCTCTGAACAGGCCCTGAGTCTGGAGCCACCATAACTGTGCCCATAAAATTGGACGAATCAT  
TGATGGGAGCCCTGCAGATCGTGTGCCAACTCAAAGTGGGCGACCGTATCTTAGCAGTCAACGGCCAG  
TCTATCATCAACATGCCTCAGCTGACATTGTGAAGTCAAGGACCGCGTCTCAGTGTACCCTTC  
GCATCATTCTCAGGAGGAGCTCAACAGCCCAACATCAGCACCCAGTTCAGAGAAAACAGAGCCCATGGC  
CCAGCAGCACAGCCCTCTGGCCAGCAGAGTCTCTGGCCAGCCAAGCCCGCCACCCCAACAGCCCA  
GTCGCACAGCCAGCTCTCCCAACCTCTCCAGCTGCAAGGACACGAAAATAGTTACAGGTCAGAAGTTA  
AAGCGAGGCAAGATGTGAAGCCAGACATCCGGCAGCCTCCCTTACAGACTACAGGCAGCCCCCGTGG  
CTACAGGCAGCCCCGGGAGGAGACTACTCACAGCCCCACCCTTGGACTACAGGCAGCACTCTCCAGAC  
ACCAGGCAGTACCCTCTGTGAGACTACAGGCAGCCACAGGATTTTGATTATTTCACTGTGGACATGGAGA  
AAGGAGCCAAAGGATTTGGATTGAGTTCGTGGAGGAAGGGAATAACAAGATGGATCTGTATGTGTGAG  
ATTGGCAGAGGATGGGCCAGCCATAAGGAACGGCAGGATGAGGGTAGGAGATCAGATCATTGAAATAAT  
GGGAAAAGCACACGAGACATGACCCACGCCAGAGCAATAGAATCATCAAGTCTGGAGGAAGAAGAGTGC  
GGCTGCTGCTGAAGAGAGGCACGGGGCAGTCCCAGGATATGGAATGGTACCTTCCAGCCTCTCCATGTG  
CATGAAAAGTGACAAGCATGGGTCCCCATATTTCTACTTACTGGGCCACCCTAAAGACACGACGAACCC  
ACGCCTGGAGTGTGCCCTGCCCGCCCGCCAGGCTGCCGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >MR217977 representing NM\_001170746  
 Red=Cloning site Green=Tags(s)

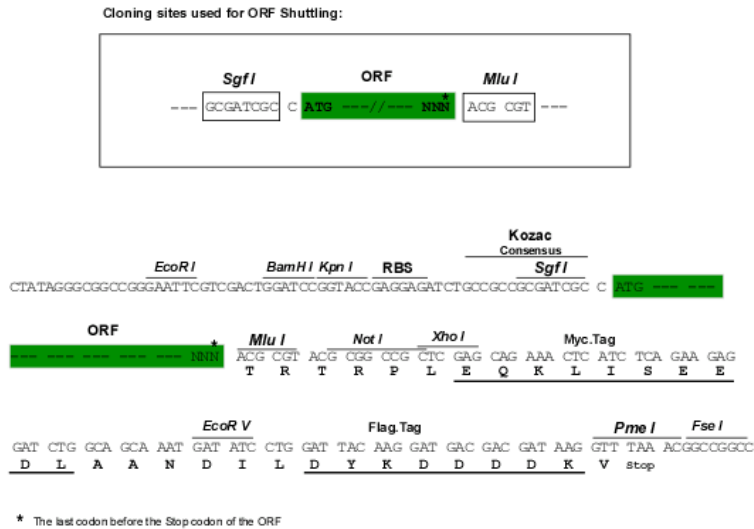
MSKSLKKKSHWTSKVHESVIGRNPEGQLGFELKGAENGQFPYLGEVKPGKVAYESGSKLVSEELLEV  
 ETPVAGLTIRDVLAVIKHCKDPLRLKCVKQGGIVDKDLRHYLNLRFKGSDHDLQIIRDNLYLRTVPC  
 TTRPHKEGEVPGVDYIFITVEEFMELEKSGALLESGTYEDNYGTPKPPAEPAPLLNVDQILPGATPSA  
 EGKRKRKNSVTNMEKASIEPPEEEEEERPVVNGVNGVITPESSEHEDKSAGASGETPSQYPAPVYSQPE  
 ELKDQMDDTKPTKPEENEDSDPLPDNWEMAYTEKGEVYFIDHNTKTTSWLDPRLAKKAKPPEECKENELP  
 YGWEKIDDPYIGTYVVDHINRRTQFENPVLEAKRKLQQHNPHTELGAKPLQAPGFREKPLFTRDASQLK  
 GTFLSTLLKKSVMGFGTIIIGGDEPDEFQVKSVIPDGPAAQDGKMETGDVIVYINEVCVLGHTHADVVK  
 LFQSVPIGQSVNLVLCRGYPLFPDPEDPANSMPVPLAIMERPPPVMVNGRHNHYETYLEYISRTSQSVPI  
 TDRPPSHLSMPADGQLDGTYPVVDHNVSMASGATQAEMLTLIVKGAQGGFTIADSPGQRVKQI  
 LDIQGCPGLCEGLIVEINQQNVQNLSHTEVVDILKDCPVGSETSLIIHRGGFFSPWKTPKPMMDRWENQ  
 GSPQTSLSAPAVPQNLFPFPALHRSSFDPSTEAFDPRKPDYELYEKSRAIYESRQVPPRSTFRMDSGG  
 PDYKELDVHLRRMESGFGFRILGGDEPGQPILIGAVIAMGSADRDGRLHPGDELVYVDGIPVAGKTHRYV  
 IDLMHHAARNGQVNLTVRRKVLGCGEPCPENGRSPGSVSTHHSSPRSDYATYSNSNHAAPSSNASPPEGF  
 ASHSLQTSADVVIHRKENEGFGFVIISSLNRPESGATITVPHKIGRIIDGSPADRCACLKVGDRILAVNGQ  
 SIINMPHADIVKLIKDAGL SVTLRIIPQEELNSPTSAPSSEKQSPMAQQHSPLAQQSPLAQPSPATPNSP  
 VAQPAPPQPLQLQGHENSYSRSEVKARQDVKPDIRQPPFTDYRQPPLDYRQPPGGDYSQPPPLDYRQHSPD  
 TRQYPLSDYRQPQDFDYFTVDMEKAGKGFGSIRGGREYKMDLVYLRLAEDGPAIRNGRMRVGDQIIIEIN  
 GESTRDMTHARAIELIKSGGRRVRLLLKRGTGQVPEYGMVPSLSMCMKSDKHGSPYFYLLGHPKDTTNP  
 TPGVLPPLPPPQACRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9049\\_a04.zip](https://cdn.origene.com/chromatograms/mm9049_a04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

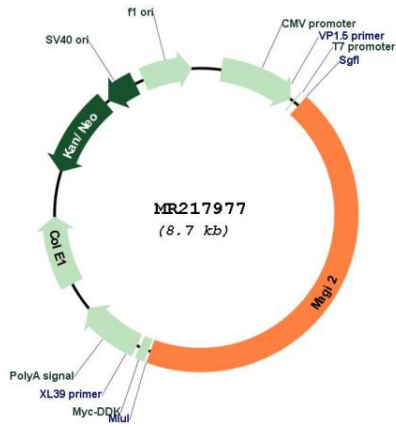


ACCN: NM\_001170746

ORF Size: 3825 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_001170746.1</a> , <a href="#">NP_001164217.1</a>   |
| <b>RefSeq Size:</b>           | 6736 bp   |
| <b>RefSeq ORF:</b>            | 3828 bp   |
| <b>Locus ID:</b>              | 50791   |
| <b>UniProt ID:</b>            | <a href="#">Q9WVQ1</a>  |
| <b>Cytogenetics:</b>          | 5 A3  |
| <b>MW:</b>                    | 141.4 kDa   |
| <b>Gene Summary:</b>          | Seems to act as scaffold molecule at synaptic junctions by assembling neurotransmitter receptors and cell adhesion proteins. Plays a role in nerve growth factor (NGF)-induced recruitment of RAPGEF2 to late endosomes and neurite outgrowth. May play a role in regulating activin-mediated signaling in neuronal cells. Enhances the ability of PTEN to suppress AKT1 activation (By similarity).[UniProtKB/Swiss-Prot Function]   |

Product images:



Circular map for MR217977