

## Product datasheet for **MC223608**

### Magi2 (NM\_015823) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Magi2 (NM\_015823) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Magi2  
**Synonyms:** Acvri1; Acvrinp1; Acvrip1; AIP-1; Magi-2; mKIAA0705; S-SCAM  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223608 representing NM\_015823  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAATTGGAGAAAAGTGGTGCTCTCCTAGAAGCGGGACCTATGAAGACAACACTACGGTACCCCGA  
AGCCTCCAGCTGAACCAGCACCATTATTAATGTAACAGACCAGATACTCCGGGAGCTACTCCAAGTGC  
TGAGGGGAAGCGAAAAGAAATAAGTCAGTGACCAACATGGAGAAAGCAAGTATAGAGCCTCCAGAGGAG  
GAAGAAGAAGAAAGGCCTGTAGTCAATGGAACCGGCGTGGTCATAACCCCAAGAATCCAGTGAACATGAAG  
ACAAAAGTGCAGGTGCCTCAGGGGAGACACCCTCCAGCCTTACCCTGCACCCGTGTACAGCCAGCCCGA  
AGAGCTCAAGGACCAGATGGACGATACAAAGCCAAAGCCTGAGGAGAACGAGGACTCTGATCCATTG  
CCTGATAACTGGGAAATGGCCTACACAGAGAAGGGGAAAGTCTACTTCATTGACCATAACACAAAGACAA  
CATCATGGCTGGATCCGCGACTTGCGAAAAAGGCTAAACCTCCAGAAGAGTGCAAAGAAAATGAGCTTCC  
ATATGGCTGGGAAAAATCGATGATCCTATATATGGCACTTACTATGTTGACCACATAAATAGAAGAACA  
CAGTTTAAAACCTGTCTGGAAGCAAAAAGGAAGCTACAGCAACATAACATGCCCCACACAGAAGTGG  
GAGCAAAGCCCTGCAGGCCCCAGGTTTCCGAGAAAAGCCACTTCCACCCGGGATGCATCCCAGTTGAA  
GGGAACGTTCTCAGCACACCCTCAAAAAGAGCAACATGGGCTTTGGGTTTACCATCATTGGTGGAGAC  
GAGCCGGATGAGTTTCTACAGGTGAAAAGTGTGATCCCGGATGGGCTGCCGCACAGGATGGGAAAATGG  
AGACAGGTGATGTCATTGTCTATATTAATGAAGTTTGTGTCCTTGGACACACTCATGCAGATGTTGTCAA  
ACTTTTCCAGTCTGTTCTATTGGTCAGAGTGTCAACTGGTGTGTGTCGTGGCTACCCTTTGCCCTTT  
GACCCTGAAGATCCTGCTAACAGCATGGTGCCACCCTTGCAATAATGGAGAGGCCACCTCCGGTGTGAG  
TCAATGGAAGACATAACTATGAAACATACTTGAATAACATTTCTCGGACCTCACAGTCGGTCCCAGATAT  
TACAGACCGCCACCTCATTCTTTGCACCTCCATGCCAGCTGACGGCCAGCTAGATGGCACGTATCCACCA  
CCCGTCCATGACGACAATGTGTCTATGGCTTCGTCTGGAGCCACTCAAGCTGAACCTATGACCTTAACCA  
TTGTGAAAGGTGCCAGGATTTGGCTTTACTATTGCCGACAGTCCCACGGGACAGCGGGTAAAACAAAT  
CCTTGACATTCAGGGATGCCCTGGGCTGTGTGAAGGAGACCTCATTGTTGAGATCAACCAACAGAATGTA  
CAGAACCTGAGCCATACAGAAGTAGTGGATATACTTAAGGACTGCCCCGTTGGAAGTGAGACTTCTTTAA



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TCATCCATCGAGGAGTTTCTTTTCTCCATGGAAACTCCAAGCCTATGATGGACCGATGGGAGAACCA  
 AGGCAGTCCACAAACAAGTTTATCTGCTCCGGCCGTCCCACAGAACCTGCCCTTCCCACCTGCCCTTAC  
 AGGAGCTCCTTTCCTGATTCAACAGAGGCCCTTACCCACGGAAGCCTGACCCATATGAGCTCTACGAGA  
 AATCGAGAGCCATTTATGAAAGTAGGCAACAAGTGCCACCCAGGACCAGTTTTCGAATGGATTCTCTGG  
 TCCAGATTATAAGGAAGTGGATGTTACCTTCGGAGGATGGAGTCTGGATTTGGCTTTAGAATCCTTGGG  
 GGAGATGAACCTGGACAGCCTATTTTATCGGAGCCGTCATTGCCATGGGCTCAGCTCAGAGACGGCC  
 GTCTACACCCAGGAGATGAGCTTGCTATGTGATGGGATCCCAGTGGCTGGCAAGACCCACCGCTATGT  
 CATCGACCTCATGCACCACGCGCCGCAATGGGCAGGTTAACCTCACTGTGAGAAGAAAGGTGCTATGT  
 GGAGGGGAGCCCTGCCAGAGAATGGGAGGAGTCCAGGCTCTGTATCAACTCACCACAGCTCTCCGCGCA  
 GTGACTATGCCACCTACTCCAACAGCAACCACGCGCCGCCAGCAGCAATGCCTCACCTCCTGAAGGCTT  
 TGCCTCACACAGCTTGCAGACCAGTGTGTGGTCAATCACCAGCAAGAAAACGAAGGGTTTGGCTTCGTC  
 ATCATCAGCTCTGAACAGGCCAGTCTGGAGCCACCATAACTGTGCCCCATAAAAATTGGACGAATCA  
 TTGATGGGAGCCCTGCAGATCGCTGTGCCAACTCAAAGTGGGCGACCGTATCTTAGCAGTCAACGGCCA  
 GTCTATCATCAACATGCCTCACGCTGACATTGTGAAGCTCATCAAGGACGCGGTCTCAGTGTACCCTT  
 CGCATCATTCTCAGGAGGAGCTCAACAGCCCAACATCAGCACCAGTTCAGAGAAACAGAGCCCATGG  
 CCCAGCAGCACAGCCCTCTGGCCAGCAGAGTCTCTGGCCAGCCAAGCCCGCCACCCCAACAGCCC  
 AGTCGCACAGCCAGCTCCTCCCCAACCTCTCCAGCTGCAAGGACACGAAAATAGTTACAGGTCAGAAGTT  
 AAAGCGAGGCAAGATGTGAAGCCAGACATCCGGCAGCCTCCCTTACAGACTACAGGCAGCCCCGCTGG  
 ACTACAGGCAGCCCCGGGAGGAGACTACTCACAGCCCCACCCTTGGACTACAGGCAGCACTCTCCAGA  
 CACCAGGCAGTACCCTCTGTGACTACAGGCAGCCACAGGATTTTGATTATTTCACTGTGGACATGGAG  
 AAAGGAGCCAAAGGATTTGGATTGAGCATTCTGTGGAGGAAGGGAATAACAAGATGGATCTGTATGTGTTGA  
 GATTGGCAGAGGATGGCCAGCCATAAGGAACGGCAGGATGAGGGTAGGAGATCAGATCATTGAAATAAA  
 TGGGAAAGCACACGAGACATGACCCACGCCAGCAATAAGAATCATCAAGTCTGGAGGAAGAAGAGTG  
 CGGCTGTGCTGAAGAGAGGCACGGGGCAGGTCGCGGAGTATGGAATGGTACCTTCCAGCCTCTCCATGT  
 GCATGAAAAGTGACAAGCATGGGTCCCATATTTCTACTTACTGGCCACCCTAAAGACACGACGAACCC  
 CACGCCTGGAGTCTGCCGCTGCCGCCGCCAGGCTGCCGGAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_015823
- Insert Size:** 3339 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\\_015823.3, NP\\_056638.1](#)

RefSeq Size: 6571 bp

RefSeq ORF: 3339 bp

Locus ID: 50791

UniProt ID: [Q9WWQ1](#)

Cytogenetics: 5 A3

**Gene Summary:** 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]

Transcript Variant: This variant (2) represents use of an alternate promoter and 5' UTR and uses a downstream start codon, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.