OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR216472

Magi2 (NM_001170745) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Magi2 (NM_001170745) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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
ORF Nucleotide Sequence:	>MR216472 representing NM_001170745 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAATTGGAGAAAAGTGGTGCTCTCCTAGAAAGCGGGACCTATGAAGACAACTACTACGGTACCCCGA AGCCTCCAGCTGAACCAGCACCATTATTAAATGTAACAGACCAGATACTTCCGGGAGCTACTCCAAGTGC TGAGGGGAAGCGGAAAAGAAATAAGTCAGTGACCAACATGGAGAAAGCAAGTATAGAGCCTCCAGAGGAG GAAGAAGAAGAAAGGCCTGTAGTCAATGGAAACGGCGTGGTCATAACCCCAGAATCCAGTGAACATGAAG ACAAAAGTGCAGGTGCCTCAGGGGAGACACCCTCCCAGCCTTACCCTGCACCCGTGTACAGCCAGCCCGA AGAGCTCAAGGACCAGATGGACGATACAAAGCCAACAAAGCCTGAGGAGAACGAGGACTCTGATCCATTG CCTGATAACTGGGAAATGGCCTACACAGAGAAGGGGGAAGTCTACTTCATTGACCATAACACAAAGACAA CATCATGGCTGGATCCGCGACTTGCGAAAAAGGCTAAACCTCCAGAAGAGTGCAAAGAAAATGAGCTTCC ATATGGCTGGGAAAAAATCGATGATCCTATATATGGCACTTACTATGTTGACCACATAAATAGAAGAACA CAGTTTGAAAACCCTGTCCTGGAAGCAAAAAGGAAGCTACAGCAACATAACATGCCCCACACAGAACTTG GAGCAAAGCCCCTGCAGGCCCCAGGTTTCCGAGAAAAGCCACTCTTCACCCGGGATGCATCCCAGTTGAA GGGAACGTTCCTCAGCACCACCCTCAAAAAGAGCAACATGGGCTTTGGGTTTACCATCATTGGTGGAGAC GAGCCGGATGAGTTTCTACAGGTGAAAAGTGTGATCCCGGATGGGCCTGCCGCACAGGATGGGAAAATGG AGACAGGTGATGTCATTGTCTATATTAATGAAGTTTGTGTCCTTGGACACACTCATGCAGATGTTGTCAA ACTTTTCCAGTCTGTTCCTATTGGTCAGAGTGTCAACTTGGTGTTGTGTCGTGGCTACCCTTTGCCCTTT GACCCTGAAGATCCTGCTAACAGCATGGTGCCACCCCTTGCAATAATGGAGAGGCCACCTCCGGTGATGG TCAATGGAAGACATAACTATGAAACATACTTGGAATACATTTCTCGGACCTCACAGTCGGTCCCAGATAT TACAGACCGGCCACCTCATTCTTTGCACTCCATGCCAGCTGACGGCCAGCTAGATGGCACGTATCCACCA CCCGTCCATGACGACAATGTGTCTATGGCTTCGTCTGGAGCCACTCAAGCTGAACTTATGACCTTAACCA TTGTGAAAGGTGCCCAGGGATTTGGCTTTACTATTGCCGACAGTCCCACGGGACAGCGGGTGAAACAAAT CCTTGACATTCAGGGATGCCCTGGGCTGTGTGAAGGAGACCTCATTGTTGAGATCAACCAACAGAATGTA CAGAACCTGAGCCATACAGAAGTAGTGGATATACTTAAGGACTGCCCCGTTGGAAGTGAGACTTCTTTAA

View online »

TCATCCATCGAGGAGGTTTCTTTTCTCCATGGAAAACTCCAAAGCCTATGATGGACCGATGGGAGAACCA
AGGCAGTCCACAAACAAGTTTATCTGCTCCGGCCGTCCCACAGAACCTGCCCTTCCCACCTGCCCTTCAC
AGGAGCTCCTTTCCTGATTCAACAGAGGCCTTTGACCCACGGAAGCCTGACCCATATGAGCTCTACGAGA
AATCGAGAGCCATTTATGAAAGTAGGCGTCCAGATTATAAGGAACTGGATGTTCACCTTCGGAGGATGGA
GTCTGGATTTGGCTTTAGAATCCTTGGGGGAGATGAACCTGGACAGCCTATTTTGATCGGAGCCGTCATT
GCCATGGGCTCAGCTGACAGAGACGGCCGTCTACACCCAGGAGATGAGCTTGTCTATGTCGATGGGATCC
CAGTGGCTGGCAAGACCCACCGCTATGTCATCGACCTCATGCACCACGCGGCCCGCAATGGGCAGGTTAA
CCTCACTGTGAGAAGAAAGGTGCTATGTGGAGGGGAGCCCTGCCCAGAGAATGGGAGGAGTCCAGGCTCT
GTATCAACTCACCACAGCTCTCCGCGCAGTGACTATGCCACCTACTCCAACAGCAACCACGCCGCCCCCA
GCAGCAATGCCTCACCTCCTGAAGGCTTTGCCTCACACAGCTTGCAGACCAGTGATGTGGTCATTCACCG
CAAAGAAAACGAAGGGTTTGGCTTCGTCATCATCAGCTCTCTGAACAGGCCTGAGTCTGGAGCCACCATA
ACTGTGCCCCATAAAATTGGACGAATCATTGATGGGAGCCCTGCAGATCGCTGTGCCAAACTCAAAGTGG
GCGACCGTATCTTAGCAGTCAACGGCCAGTCTATCATCAACATGCCTCACGCTGACATTGTGAAGCTCAT
CAAGGACGCCGGTCTCAGTGTCACCCTTCGCATCATTCCTCAGGAGGAGCTCAACAGCCCAACATCAGCA
CCCAGTTCAGAGAAACAGAGCCCCATGGCCCAGCAGCACAGCCCTCTGGCCCAGCAGAGTCCTCTGGCCC
AGCCAAGCCCCGCCACCCCCAACAGCCCAGTCGCACAGCCAGCTCCTCCCCAACCTCTCCAGCTGCAAGG
ACACGAAAATAGTTACAGGTCAGAAGTTAAAGCGAGGCAAGATGTGAAGCCAGACATCCGGCAGCCTCCC
TTCACAGACTACAGGCAGCCCCCGCTGGACTACAGGCAGCCCCCGGGAGGAGACTACTCACAGCCCCCAC
CCTTGGACTACAGGCAGCACTCTCCAGACACCAGGCAGTACCCTCTGTCAGACTACAGGCAGCCACAGGA
TTTTGATTATTTCACTGTGGACATGGAGAAAGGAGCCAAAGGATTTGGATTCAGCATTCGTGGAGGAAGG
GAATACAAGATGGATCTGTATGTGTTGAGATTGGCAGAGGATGGGCCAGCCATAAGGAACGGCAGGATGA
GGGTAGGAGATCAGATCATTGAAATAAATGGGGAAAGCACACGAGACATGACCCACGCCAGAGCAATAGA
ACTCATCAAGTCTGGAGGAAGAAGAGTGCGGCTGCTGCTGAAGAGAGGCACGGGGCAGGTCCCGGAGTAT
GGAATGGTACCTTCCAGCCTCTCCATGTGCATGAAAAGTGACAAGCATGGGTCCCCATATTTCTACTTAC
TGGGCCACCCTAAAGACACGACGAACCCCACGCCTGGAGTGCTGCCGCTGCCGCCGCCCCAGGCCTGCCG
GAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

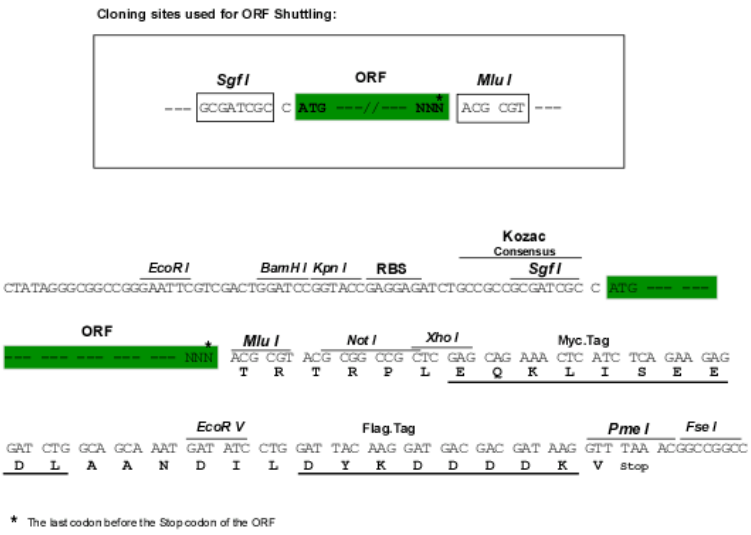
>MR216472 representing NM_001170745
Red=Cloning site Green=Tags(s)

MELEKSGALLESGTYEDNYYGTPKPPAEPAPLLNVTDQILPGATPSAEGKRKRNKSVTNMEKASIEPPEE
EEEERPVVNGNGVVITPESSEHEDKSAGASGETPSQPYPAPVYSQPEELKDQMDDTKPTKPEENEDSDPL
PDNWEMAYTEKGEVYFIDHNTKTTSWLDPRLAKKAKPPEECKENELPYGWEKIDDPIYGTYYVDHINRRT
QFENPVLEAKRKLQQHNMPHTELGAKPLQAPGFREKPLFTRDASQLKGTFLSTTLKKSNMGFGFTIIGGD
EPDEFLQVKSVIPDGPAAQDGKMETGDVIVYINEVCVLGHTHADVVKLFQSVPIGQSVNLVLCRGYPLPF
DPEDPANSMVPPLAIMERPPPVMVNGRHNYETYLEYISRTSQSVPDITDRPPHSLHSMPADGQLDGTYPP
PVHDDNVSMASSGATQAELMTLTIVKGAQGFGFTIADSPTGQRVKQILDIQGCPGLCEGDLIVEINQQNV
QNLSHTEVVDILKDCPVGSETSLIIHRGGFFSPWKTPKPMMDRWENQGSPQTSLSAPAVPQNLPFPPALH
RSSFPDSTEAFDPRKPDPYELYEKSRAIYESRRPDYKELDVHLRRMESGFGFRILGGDEPGQPILIGAVI
AMGSADRDGRLHPGDELVYVDGIPVAGKTHRYVIDLMHHAARNGQVNLTVRRKVLCGGEPCPENGRSPGS
VSTHHSSPRSDYATYSNSNHAAPSSNASPPEGFASHSLQTSDVVIHRKENEGFGFVIISSLNRPESGATI
TVPHKIGRIIDGSPADRCAKLKVGDRILAVNGQSIINMPHADIVKLIKDAGLSVTLRIIPQEELNSPTSA
PSSEKQSPMAQQHSPLAQQSPLAQPSPATPNSPVAQPAPPQPLQLQGHENSYRSEVKARQDVKPDIRQPP
FTDYRQPPLDYRQPPGGDYSQPPPLDYRQHSPDTRQYPLSDYRQPQDFDYFTVDMEKGAKGFGFSIRGGR
EYKMDLYVLRLAEDGPAIRNGRMRVGDQIIEINGESTRDMTHARAIELIKSGGRRVRLLLKRGTGQVPEY
GMVPSSLSMCMKSDKHGSPYFYLLGHPKDTTNPTPGVLPLPPPQACRK

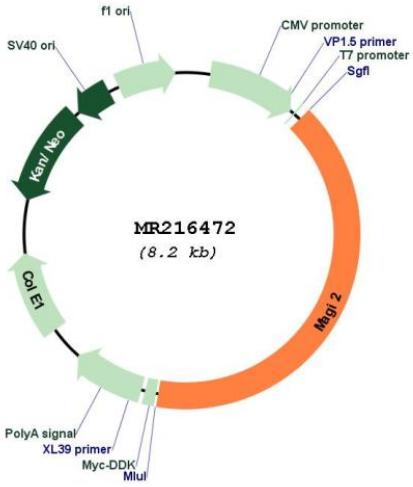
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001170745

ORF Size: 3294 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_001170745.1, NP_001164216.1
RefSeq Size:	6557 bp
RefSeq ORF:	3297 bp
Locus ID:	50791
UniProt ID:	Q9WVQ1
Cytogenetics:	5 A3
MW:	121.5 kDa
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]