

Product datasheet for **MG216472**

Magi2 (NM_001170745) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Magi2 (NM_001170745) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Magi2
Synonyms: Acvri1; Acvrinp1; Acvrip1; AIP-1; Magi-2; mKIAA0705; S-SCAM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216472 representing NM_001170745
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAATTGGAGAAAAGTGGTGCTCCTAGAAAGCGGGACCTATGAAGACAACACTACGGTACCCCGA
 AGCCTCCAGCTGAACCAGCACCATTATTAATGTAACAGACCAGATACTCCGGGAGCTACTCCAAGTGC
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 GAAGAAGAAGAAAGGCCCTGTAGTCAATGGAAACGGCGTGGTCATAACCCCAAGTCCAGTGAACATGAAG
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 CATCATGGCTGGATCCGCGACTTGCGAAAAAGGCTAAACCTCCAGAAGAGTGCAAAGAAAATGAGCTTCC
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 CAGTTTGAACCCCTGTCTGGAAGCAAAAAGGAAGCTACAGCAACATAACATGCCCCACACAGAAGTTG
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CAGAACCTGAGCCATACAGAAGTAGTGGATATACTTAAGGACTGCCCCGTTGGAAGTGAGACTTCTTTAA
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 GGTAGGAGATCAGATCATTGAAATAAATGGGAAAGCACACAGACATGACCCAGCCAGCAATAGA
 ACTCATCAAGTCTGGAGGAAGAAGAGTGGCGCTGCTGCTGAAGAGAGGCACGGGGCAGGTCCCGGATAT
 GGAATGGTACCTTCCAGCCTCTCATGTGCATGAAAAGTGAACAGCATGGGTCCCATATTTCTACTTAC
 TGGGCCACCCTAAAGACACGACGAACCCACGCTGGAGTGTGCCGCTGCCGCCGCCAGGCCTGCC
 GAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216472 representing NM_001170745
 Red=Cloning site Green=Tags(s)

MELEKSGALLESPTYEDNYYGTPKPPAEPAPLLNVDQILPGATPSAEGKRKRKNSVTNMEKASIEPPEE
 EEEERPVVNGVVIIPESSEHEDKSAGASGETPSQPYPAPVYSQPEELKDQMDTKPTKPEENEDSDPL
 PDNWEMAYTEKGEVYFIDHNTKTTSWLDPRLAKKAKPPEECKENELPYGWEKIDDPYGYVDHINRRT
 QFENPVLAKRKLQQHNMPHTELGAQPLQAPGFREKPLFTRDASQLKGTFLSTTLKSNMGFGFTIIGGD
 EPDEFLLQKSVIPDGPAAQDGKMETGDVIYVINEVCLVGHADVVKLFQSVPIGQSVNLVLCRGLPLPF
 DPEDPANSMPPLAIMERPPVMVNGRHNHYETYLEYISRTSQSVPDITDRPPHSLHSMADGQLDGTYP
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 RSSFPDSTEAFDPRKPDYELYEKRAIYESRRPDYKELDVHLRRMESGFGFRILGGDEPGQPILIGAVI
 AMGSADRDGRLHPGDEL VYVDGIPVAGKTHRYVIDLMHHAARNGQVNLTVRRKVLGCGEPCPENGRSPGS
 VSTHHSSPRSDYATYSNSNHAAPSSNASPPEGFASHLQTSVVIHRKENEGFGFVIISSLNRPEGATI
 TVPHKIGRIIDGSPADRCALKVGDRI LAVNGQSIINMPHADIVKLIKDAGLSVTLRIIPQEELNSPTSA
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 FTDYRQPPLDYRQPPGGDYSQPPPLDYRQHSPTDRQYPLSDYRQPDYFDYFTVDMKAGKGFSGSIRGGR
 EYKMDLYVLR LAEDGPAIRNGRMRVGDQIEINGESTRDMTHARAIEIKSGRRVRLLLKRGTGQVPEY
 GMVPSSLSMCMKSDKHGSPYFYLLGHPKDTTNPVGLPLPPPQACRK

TRTRPLE - GFP Tag - V

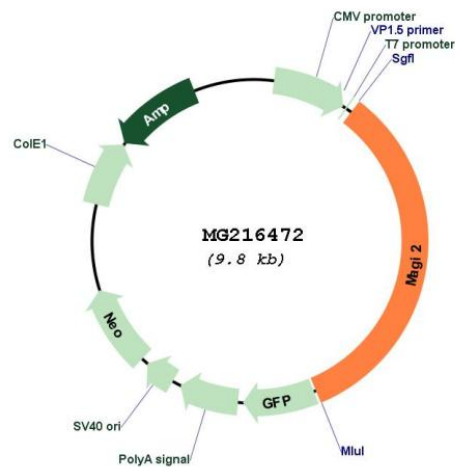
Restriction Sites:

Sgfl-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:	<ol style="list-style-type: none">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:	<u>NM_001170745.1, NP_001164216.1</u>
RefSeq Size:	6557 bp
RefSeq ORF:	3297 bp
Locus ID:	50791
UniProt ID:	<u>Q9WVQ1</u>
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]