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 MC223555

Magi2 (NM_001170745) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Magi2 (NM_001170745) 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:

>MC223555 representing NM_001170745
Red=Cloning site Blue=ORF Orange=Stop codon

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
GAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001170745

Insert Size: 3297 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_001170745.1, NP_001164216.1

RefSeq Size:	6557 bp
RefSeq ORF:	3297 bp
Locus ID:	50791
UniProt ID:	Q9WVQ1
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 (3) represents use of an alternate promoter and 5' UTR, uses a downstream start codon, and lacks an alternate in-frame exon in the central coding region, compared to variant 1. The resulting isoform (3) has a shorter N-terminus and lacks an internal segment, compared to isoform 1.