

Product datasheet for MR226584

Magi3 (NM_133853) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Magi3 (NM_133853) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Magi3
Synonyms: 4732496O19Rik; 6530407C02Rik; AA407180; AI120132; mKIAA1634
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226584 representing NM_133853
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCCCGCATCGCC

ATGTCSAAGACGTTGAAGAAGAAGAAGCACTGGCTCAGCAAGGTGCAGGAGTGTGCGGTATCCTGGGCCG
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 GCTCCGCGACGAGGCTGGCGCGCGGAGGCACCTGCTGCGTGGTCTCGGGCAAGCGCCAGTCCGGGC
 GATGTGCTGTTGGAGGTGAACGGGACCGCGTCACTGGGCTCACCAACCGGGACACTCTGGCTGTATCC
 GCCACTCCGCGAGCCCATCCGTCTGAAGACGGTGAAGCCAGGCAAAGTTATAAATAAAGATTTGCGACA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226584 representing NM_133853
 Red=Cloning site Green=Tags(s)

MSKTLKKKKHWL SKVQECASWAGPPGDLGAEIRGGAERGEFPYLGRRLDEAGGGGGTCCVVSGKAPSPG
 DVLLEVNGTPVSGLTNRDTLAVIRHFREPIRLKTVKPGKVINKDLRHYLSLQFQKGSIDHKLQQVIRDNL
 YLRTIPCTTRAPRDGEVPGVDYNFISVEQFKALEESGALLESGTYDGNFYGTPKPPAEPSPFPDPVDQV
 LFDNEFDTESQRKRTTSVSKMERMDSSLPEEEDEDEDKEAVNGSGSMETREMHSETSDCWMKTVPSYNQTN
 SSMDFRNYMMRDENLEPLPKNWEMAYTDTGMIYFIDHNTKTTTWLDPRLCKKAKAPEDCEDGELPYGWEK
 IEDPQYGTYYVDHLNQTQFENPVVEAKRKKQLGQAEIHS AKTDVERAHFTRDPSQLKGVLRASLKKST
 MGFGFTIIGGDRPDEFLQVKNVLKDGPAAQDGKIAPGDVIDINGNCVLGHTHADVVQMFQLVPVNQYVN
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 IGRDVCSSYRHSWSDHKHLAQPDTAVISVVGSRHNQSLGCYPVELERGRGFGFSLRGGKEYNMGLFILR
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 VKPEQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9049_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

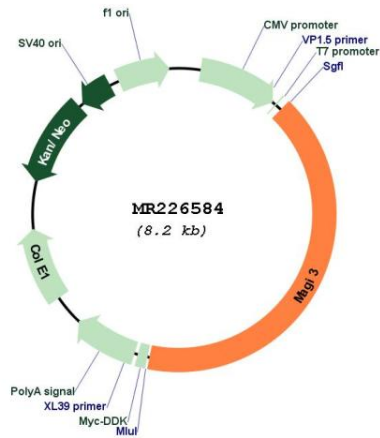


ACCN: NM_133853

ORF Size: 3378 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:	NM_133853.3 , NP_598614.1
RefSeq Size:	6672 bp
RefSeq ORF:	3381 bp
Locus ID:	99470
UniProt ID:	Q9EQJ9
Cytogenetics:	3 45.52 cM
MW:	123.8 kDa
Gene Summary:	Acts as a scaffolding protein at cell-cell junctions, thereby regulating various cellular and signaling processes. Cooperates with PTEN to modulate the kinase activity of AKT1. Its interaction with PTPRB and tyrosine phosphorylated proteins suggests that it may link receptor tyrosine phosphatase with its substrates at the plasma membrane. In polarized epithelial cells, involved in efficient trafficking of TGFA to the cell surface. Regulates the ability of LPAR2 to activate ERK and RhoA pathways. Regulates the JNK signaling cascade via its interaction with FZD4 and VANGL2.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226584