MAGI3 cDNA Clone – Membrane Associated Guanylate Kinase, Ww and PDZ Domain Containing 3 (Human)

PRODUCT OVERVIEW

Product Name	MAGI3, cDNA Clone
Full Product Name	MAGI3 cDNA Clone
Product Gene Name	MAGI3 cdna clone
Sequence	atgtcgaaga cgctgaagaa gaagaagcac tggctcagca aggtgcagga gtgcgccgtg tcctgggccg ggcccccggg cgacttcggc gcggagatcc gcggtggcgc ggagcgtggc gagttcccct acctggggcg gctccgcgag gagcccggcg ggggcacctg ctgcgtcgtc tcgggcaagg cgcccagccc aggcgatgtg ctgctggagg taaacgggac gcctgtcagc gggctcacca accgggacac cctggctgtc atccgccact tccgcgagcc catccgtctc aagactgtga aaccaggcaa agtcattaat aaagatttgc ggcattacct aagtcttcag tttcaaaaag gatcaattga ccacaaactg cagcaagtga tcagagataa tctctacttg agaaccattc catgcactac aagggccccc agggatggag aagtaccagg agtggattat aatttcattt ccgttgaaca gttcaaagca ctggaagaga gtggagcatt gttagaaagt gggacatatg atggaaactt ctatggaact cccaagcctc cagcagaacc cagcccttt cagccagatc cagttgatca agtcctcttt gataatgagt ttgatgcaga atctcaaaga aaacgaacga catctgtcag caagatggaa agaatggata gctctcttcc tgaagaggaa gaagatgagg acaaggaagc tattaatggc agtggaaacg cagaaaacag agagaggcat tctgagtcat ctgactggat gaagactgtt ccaagttaca accaaacaaa tagctccatg gactttagaa attatatgat gagagatgag actctggaac cactgcccaa aaactgggaa atggcctaca ctgacacagg gatgatctac ttcattgacc acaataccaa gacaaccacc tggttggatc ctcgtctttg taagaaagcc aaagcccctg aagactgtga agatggagag cttccttatg gctgggagaa aatagaggac cctcagtatg ggacatacta tgttgatcac cttaaccaga aaacccagtt tgaaaatcca gtggaggaag ccaaaaggaa aaagcagtta ggacaggttg aaattgggtc ttcaaaacca gatatggaaa aatcacactt cacaagagat ccatcccagc ttaaaggtgt ccttgttcga gcatcactga aaaaaagcac aatgggattt ggttttacta ttattggtgg agatagacct gatgagttcc tacaagtgaa aaatgtgctg aaagatggtc ccgcagctca ggatgggaaa attgcaccag gcgatgttat tgtagacatc aatggcaact gtgtcctcgg tcacactcat gcagatgttg tccagatgtt tcaattggta cctgtcaatc agtatgtaaa cctcacttta tgtcgtggtt atccacttcc tgatgacagt gaagatcctg ttgtggacat tgttgctgct acccctgtca tcaatggaca gtcattaacc aagggagaga cttgcatgaa tcctcaggat tttaagccag gagcaatggt tctggagcag aatggaaaat cgggacacac tttgactggt gatggtctca atggaccatc agatgcaagt gagcagagag tatccatggc atcgtcaggc agctcccagc ctgaactagt gactatccct ttgattaagg gccctaaagg gtttgggttt gcaattgctg acagccctac tggacagaag gtgaaaatga tactggatag tcagtggtgt caaggccttc agaaaggaga tataattaag gaaatatacc atcaaaatgt gcagaattta acacatctcc aagtggtaga ggtgctaaag cagtttccag taggtgctga tgtaccattg cttatcttaa gaggaggtcc tccttcacca accaaaactg ccaaaatgaa aacagataaa aaggaaaatg caggaagttt ggaggccata aatgagccta ttcctcagcc tatgcctttt ccaccgagca ttatcaggtc aggatcccca aaattggatc cttctgaggt ctacctgaaa tctaagactt tatatgaaga taaaccacca aacaccaaag atttggatgt ttttcttcga aaacaagagt cagggtttgg cttcagggtg ctaggaggag atggacctga ccagtctata tatattgggg ctattattcc cctgggagca gctgagaaag atggtcggct ccgcgcagct gatgaactaa tgtgcattga tggaattcct gttaaaggga aatcacacaa acaagtcttg gacctcatga caactgctgc tcgaaatggc catgtgttac taactgtcag acggaagatc ttctatggag aaaaacaacc cgaggacgac agctctcagg ccttcatttc aacacagaat ggatctcccc gcctgaaccg ggcagaggtc ccagccaggc ctgcacccca ggagccctat gatgttgtct tgcaacgaaa agaaaatgaa ggatttggct ttgtcatcct cacctccaaa aacaaaccac ctccaggagt tattcctcat aaaattggcc gagtcataga aggaagtccg gctgaccgct gtggaaaact gaaagttgga gatcatatct ctgcagtgaa tgggcagtcc attgttgaac tgtctcatga taacattgtt cagctgatca aagatgctgg tgtcaccgtc acactaacgg tcattgctga agaagagcat catggtccac catcaggaac aaactcagcc aggcaaagcc cagccctgca gcacaggccc atgggacagt cacaggccaa ccacatacct ggggacagaa gtgccctaga aggtgaaatt ggaaaagatg tctccacttc ttacagacat tcttggtcag accacaagca ccttgcacag cctgacaccg cagtaatttc agttgtaggc agtcggcaca atcagaacct tggttgttat ccagtagagc tggagagagg cccccggggc tttggattca gcctccgagg ggggaaggag tacaacatgg ggctgttcat ccttcgtctt gctgaagatg gtcctgccat caaagatggc agaattcatg ttggtgacca gattgttgaa atcaatgggg aacctacaca aggaatcaca catactcgag caattgagct cattcaggct ggtggaaata aagttcttct tcttttgagg ccaggaactg gcttgatacc tgaccatggt ttggctcctt ccggtctgtg ctcctacgtg aaacccgagc aacattaa
Molecular Weight	162,949 Da
OMIM	615943
Vector	pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MAGI3 cdna clone	MBS1277387 is a cDNA clone targeting MAGI3.

Other Notes	Small volumes of MAGI3 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAGI3. It may not necessarily be applicable to this product.

NCBI GI #	120659857
NCBI GeneID	260425
NCBI Accession #	BC130409
UniProt Secondary Accession #	Q5TCQ8; Q5TCR0; Q9H2V6; Q9H5Y8; Q9HBC4; Q9HCD8
UniProt Related Accession #	Q5TCQ9
NCBI Official Full Name	Homo sapiens membrane associated guanylate kinase, WW and PDZ domain containing 3, mRNA
NCBI Official Synonym Full Names	membrane associated guanylate kinase, WW and PDZ domain containing 3
NCBI Official Symbol	MAGI3
NCBI Official Synonym Symbols	MAGI-3; dJ730K3.2
UniProt Protein Name	Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 3
UniProt Synonym Protein Names	Membrane-associated guanylate kinase inverted 3; MAGI-3
Protein Family	Membrane-associated guanylate kinase, WW and PDZ domain-containing protein
UniProt Gene Name	MAGI3
UniProt Synonym Gene Names	KIAA1634; MAGI-3
UniProt Entry Name	MAGI3_HUMAN
NCBI Protein Information	membrane-associated guanylate kinase, WW and PDZ domain-containing protein 3
UniProt Comments for MAGI3	MAGI3: a protein of the MAGUK family of proteins. A peripheral membrane protein found at cell-cell junctions. Contains one guanylate kinase, two WW, and four PDZ domains. 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. Interacts with ADRB1, FZD4, FZD7, PTPRB, TGFA and VANGL2. Interacts with BAI1, LPAR2/EDG4, GRIN2B and PTEN. In case of infection, interacts with HTLV TAX1 protein, possibly affecting the transformation ability of TAX1. Does not interact with HTLV TAX2 or TAX3 proteins. Interacts with HPV type 16 and HPV type 18 E6 protein. Ubiquitinated following interaction with HPV E6 protein, leading to its degradation by the proteasome. Degradation is independent of E6AP ubiquitin ligase complex. Four alternatively spliced human isoforms have been described. Protein type: Kinase, other; Membrane protein, peripheral Chromosomal Location of Human Ortholog: 1p13.2 Molecular Function: protein binding
Research Articles on MAGI3	**1.** Expression levels of MAGI3 and PTEN were significantly downregulated in gliomas.
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