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Product datasheet for RC224906

MAGEB1 (NM_177404) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAGEB1 (NM_177404) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAGEB1
Synonyms:	CT3.1; DAM10; MAGE-Xp; MAGEL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224906 representing NM_177404.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCTCGGGGTCAGAAGAGTAAGCTCCGTGCTCGTGAGAAACGCCGCAAGGCGCGAGAGGAGACCCAG
GGTCTCAAGGTTGCTCACGCCACTGCAGCAGAGAAAGAGGAGTGCCCCTCCTCCTCTCCTGTTTTAGGG
GATACTCCCACAAGCTCCCCTGCTGCTGGCATTCCCCAGAAGCCTCAGGGAGCTCCACCCACCACCACT
GCTGCTGCAGCTGTGTCATGTACCGAATCTGACGAAGGTGCCAAATGCCAAGGTGAGGAAAATGCAAGT
TTCTCCCAGGCCACAACATCCACTGAGAGCTCAGTCAAAGATCCTGTAGCCTGGGAGGCAGGAATGCTG
ATGCACTTCATTCTACGTAAGTATAAAATGAGAGAGCCCATTATGAAGGCAGATATGCTGAAGGTTGTT
GATGAAAAGTACAAGGATCACTTCACTGAGATCCTCAATGGAGCCTCTCGCCGCTTGGAGCTCGTCTTT
GGCCTTGATTTGAAGGAAGACAACCCTAGTGGCCACACCTACACCCTCGTCAGTAAGCTAAACCTCACC
AATGATGGAAACCTGAGCAATGATTGGGACTTTCCCAGGAATGGGCTTCTGATGCCTCTCCTGGGTGTG
ATCTTCTTAAAGGGCAACTCTGCCACCGAGGAAGAGATCTGGAAATTCATGAATGTGTTGGGAGCCTAT
GATGGAGAGGAGCACTTAATCTATGGGGAACCCCGTAAGTTCATCACCCAAGATCTGGTGCAGGAAAAA
TATCTGAAGTACGAGCAGGTGCCCAACAGTGATCCCCCACGCTATCAATTCCTATGGGGTCCGAGAGCC
TATGCTGAAACCACCAAGATGAAAGTCCTCGAGTTTTTGGCCAAGATGAATGGTGCCACTCCCCGTGAC
TTCCCATCCCATTATGAAGAGGCTTTGAGAGATGAGGAAGAGAGAGCCCAAGTCCGATCCAGTGTTAGA
GCCAGGCGTCGCACTACTGCCACGACTTTTAGAGCGCGTTCTAGAGCCCCATTCAGCAGGTCCTCCCAC
CCCATG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Protein Sequence:

>Peptide sequence encoded by RC224906
Blue=ORF Red=Cloning site Green=Tag(s)

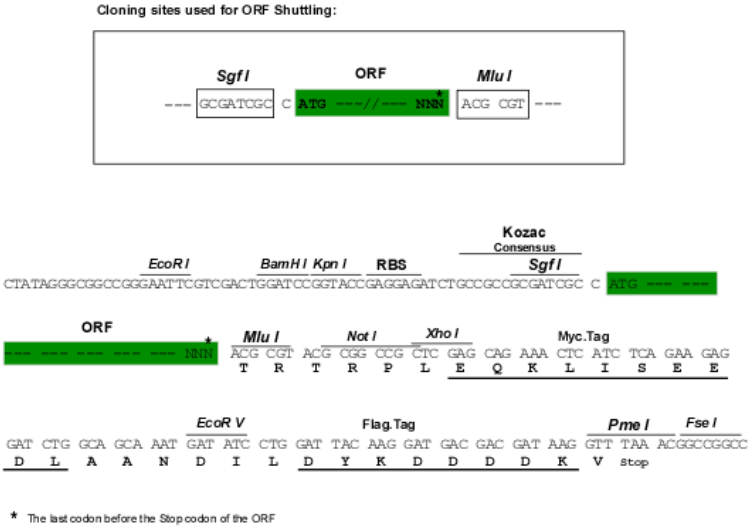
MPRGQKSKLRAREKRRKAREETQGLKVAHATAAEKEECPSSSPVLGDTPTSSPAAGIPQKPQGAPPTTT
AAAAVSCTESDEGAKCQGEENASFSQATTSTESSVKDPVAWEAGMLMHFILRKYKMREPIMKADMLKVV
DEKYKDHFTEILNGASRRLELVFGLDLKEDNPSGHTYTLVSKLNLTNDGNLSNDWDFPRNGLLMPLLGV
IFLKGNSATEEEIWKFMNVLGAYDGEEHLIYGEPRKFITQDLVQEKYLKYEQVPNSDPPRYQFLWGPRA
YAETTKMKVLEFLAKMNGATPRDFPSHYEEALRDEEERAQVRSSVRARRRTTATTFRARSRAPFSRSSH
PM
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC224906 also available, TP324906

Chromatograms: https://cdn.origene.com/chromatograms/mk6310_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177404

ORF Size: 1041 bp

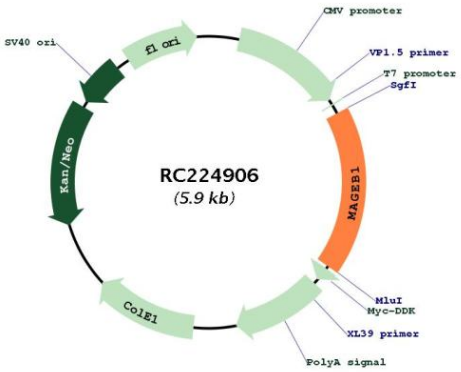
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

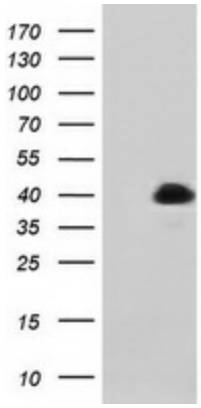
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_177404.3
RefSeq Size:	1708 bp
RefSeq ORF:	1044 bp
Locus ID:	4112
UniProt ID:	P43366
Cytogenetics:	Xp21.2
MW:	39 kDa
Gene Summary:	This gene is a member of the MAGEB gene family. The members of this family have their entire coding sequences located in the last exon, and the encoded proteins show 50 to 68% sequence identity to each other. The promoters and first exons of the MAGEB genes show considerable variability, suggesting that the existence of this gene family enables the same function to be expressed under different transcriptional controls. This gene is localized in the DSS (dosage-sensitive sex reversal) critical region, and expressed in testis and in a significant fraction of tumors of various histological types. This gene and other MAGEB members are clustered on chromosome Xp22-p21. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene, however, the full length nature of some variants has not been defined. [provided by RefSeq, Jul 2008]

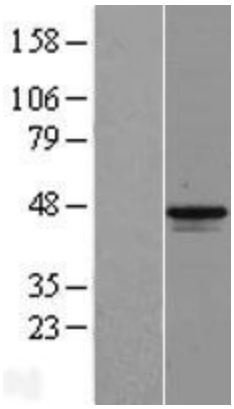
Product images:



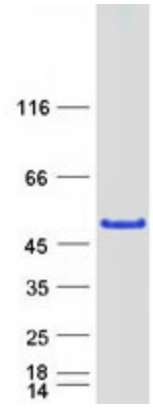
Circular map for RC224906



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAGEB1 (Cat# RC224906, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAGEB1(Cat# [TA800471]). Positive lysates [LY406154] (100ug) and [LC406154] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY406154]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224906 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAGEB1 protein (Cat# [TP324906]). The protein was produced from HEK293T cells transfected with MAGEB1 cDNA clone (Cat# RC224906) using MegaTran 2.0 (Cat# [TT210002]).