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Product datasheet for RC206060

MAGEB4 (NM_002367) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAGEB4 (NM_002367) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAGEB4
Synonyms:	CT3.6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206060 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCGGGGTCAGAAGAGTAAGCTCCGTGCCCGTGAGAAACGCCAGCGGACCCGTGGTCAGACCCAGG
ATCTCAAGGTTGGTCAGCCTACTGCAGCAGAGAAAGAAGAGTCTCCTTCCCCTTCCTCATCTGTTTTGAG
GGATACTGCCTCCAGCTCCCTTGCTTTTGGCATTCCCCAGGAGCCTCAGAGAGAGCCACCCACCACCTCT
GCTGCTGCAGCTATGTCATGCACTGGATCTGATAAAGGCGACGAGAGCCAAGATGAGGAAAATGCAAGTT
CCTCCCAGGCCTCAACATCCACTGAGAGATCACTCAAAGATTCTCTAACCAGGAAGACGAAGATGTTAGT
GCAGTTCCTGCTGTACAAGTATAAAATGAAAGAGCCCACTACAAAGGCAGAAATGCTGAAGATCATCAGC
AAAAAGTACAAGGAGCACTTCCCTGAGATCTTCAGGAAAGTCTCTCAGCGCACGGAGCTGGTCTTTGGCC
TTGCCTTGAAGGAGGTCAACCCCACCACTCACTCCTACATCCTCGTCAGCATGCTAGGCCCCAACTATGG
AAACCAGAGCAGTGCCTGGACCCTTCCAAGGAATGGGCTTCTGATGCCTCTACTGAGTGTGATCTTCTTA
AATGGCAACTGTGCCCGTGAAGAGGAAATCTGGGAATTCCTGAATATGCTGGGGATCTATGATGGAAAGA
GGCACCTTATCTTTGGGGAACCCCGAAAGCTCATCACCCAAGATCTGGTGCAGGAAAAATATCTGGAATA
CCAGCAGGTGCCCAACAGTGATCCCCCACGCTATCAATTCCTGTGGGGTCCAAGAGCTCATGCAGAAACC
AGCAAGATGAAAGTCCTGGAGTTTTTGGCCAAGGTGAATGACACCACCCCCAATAACTTCCCACTCCTTT
ATGAAGAGGCTTTGAGAGATGAAGAAGAGAGAGCTGGAGCCCGGCCCAGAGTTGCAGCCAGGCGTGGCAC
TACAGCCATGACTAGTGCGTATTCCAGGGCCACATCCAGTAGCTCTTCCCAACCCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206060 protein sequence
Red=Cloning site Green=Tags(s)

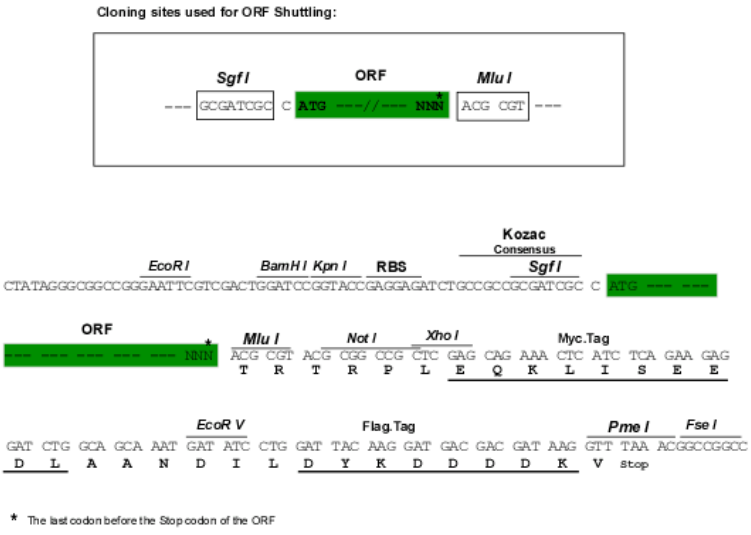
MPRGQKSKLRAREKRQRTRGQTQDLKVGQPTAAEKEESPSPSSSVLRDTASSSLAFGIPQEPQREPPTTS
AAAAMSCTGSDKGDESQDEENASSSQASTSTERSLKDSLTRKTKMLVQFLLYKYKMKEPTTKAEMLKIIS
KKYKEHFPEIFRKVSQRTELVFGLALKEVNPTTHSYILVSMLGPNYGNQSSAWTLPRNGLLMPLLSVIFL
NGNCAREEEIWEFLNMLGIYDGKRHLIFGEPRKLITQDLVQEKYLEYQQVPNSDPPRYQFLWGPRAHAET
SKMKVLEFLAKVNDTTPNNFPLLYEEALRDEEERAGARPRVAARRGTTAMTSAYSRATSSSSSQPM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6319_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002367

ORF Size: 1038 bp

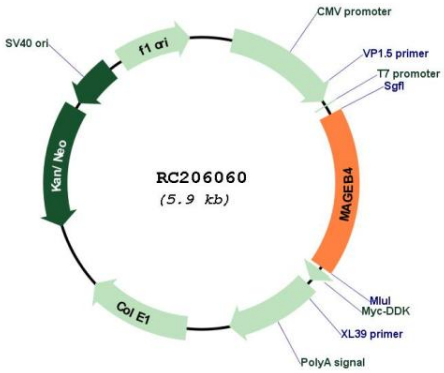
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

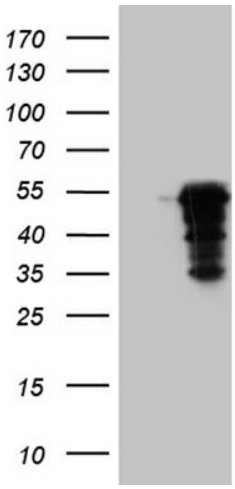
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_002367.4
RefSeq Size:	2266 bp
RefSeq ORF:	1041 bp
Locus ID:	4115
UniProt ID:	O15481
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. The MAGEB genes are clustered on chromosome Xp22-p21. This gene sequence ends in the first intron of MAGEB1, another family member. This gene is expressed in testis. [provided by RefSeq, Jul 2008]

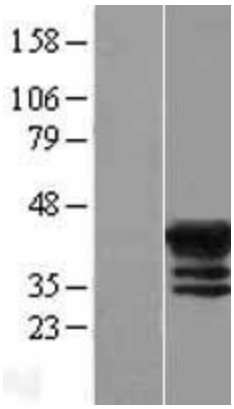
Product images:



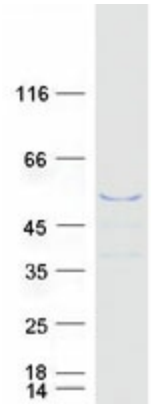
Circular map for RC206060



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAGEB4 (Cat# RC206060, 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-MAGEB4 (Cat# [TA809226])(1:2000). Positive lysates [LY419379] (100ug) and [LC419379] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419379]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206060 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAGEB4 protein (Cat# [TP306060]). The protein was produced from HEK293T cells transfected with MAGEB4 cDNA clone (Cat# RC206060) using MegaTran 2.0 (Cat# [TT210002]).