

## Product datasheet for **RC205338**

### **MAGEB2 (NM\_002364) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	MAGEB2
Synonyms:	CT3.2; DAM6; MAGE-XP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205338 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCCTCGTGGTCAGAAGAGTAAGCTCCGTGCCGTGAGAAACGCCGCAAGGCCGAGATGAGACCCGGG  
GTCTCAATGTTTCCTCAGGTCAGTGAAGCAGAGGAAGAAGAGGCCCTGCTGTTCTCTTCTGTTTCTGG  
GGGTGCTGCTTCAAGCTCTCTGCTGCTGGCATTCCCCAGAAGCCTCAGAGAGCCCCAACCCTGCCGCT  
GCTGCAGCTGCGGGTGTTCATCCACAAAATCTAAAAAGGTGCCAAGAGCCACCAAGGTGAGAAAAATG  
CAAGTTCCTCCCAGGCCCAACATCTACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAAGTCAGGGTC  
GTTGGTGCAGTTCCTGTTGTACAAGTATAAAATAAAAAAGTCCGTTACAAAGGGAGAAATGCTGAAAATT  
GTTGGCAAAAGGTTCAAGGAGCACTTCCCTGAGATCCTCAAGAAAGCCTCTGAGGGCCTCAGTGTGTCT  
TTGGCCTTGAGCTGAATAAAGTCAACCCCAACGCCACACTTACACCTTCATCGACAAGGTAGACCTCAC  
TGATGAGGAATCCCTGCTCAGTTCCTGGGACTTCCCAGGAGAAAGCTTCTGATGCCTCTCCTGGGTGTG  
ATCTTCTTAAATGGCAACTCAGCTACTGAGGAAGAGATCTGGGAATTCCTGAATATGTTGGGAGTCTATG  
ATGGAGAGGAGCACTCAGTCTTTGGGGAACCTGGAAGCTCATCACCAGAGATCTGGTGCAGGAAAAATA  
TCTGGAGTACAAGCAGGTGCCAGCAGTATCCCCACGCTTTCAATTCTGTGGGTCCGAGAGCCTAT  
GCTGAAACCAGCAAGATGAAAGTCTGGAGTTTTTGGCCAAGGTAATGGTACCACCCCTGTGCCTTCC  
CAACCCATTACGAAGAAGCTTTGAAAGATGAAGAGAAAGCCGGAGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC205338 protein sequence  
Red=Cloning site Green=Tags(s)

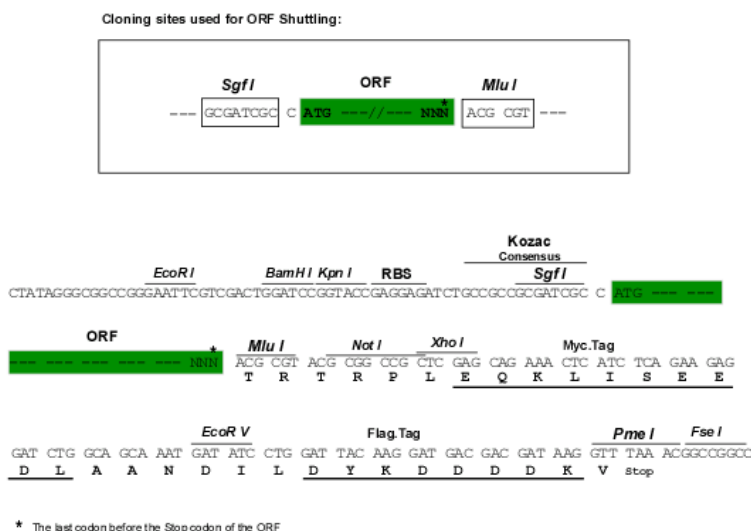
MPRGQKSKLRAREKRRKARDETGRGLNVPQVTEAAAAEAPCCSSSVSGGAASSSPAAGIPQKQPRAPTTAA  
AAAAGVSSTKSKKGAKSHQGEKNASSSQASTSTKSPSEDP LTRKSGSLVQFLLYKYIKKSVTKGEMLKI  
VGRFRFREFHFEILKKASEGLSVVFGLELNKVNPNNGHTYTFIDKVDLTDEESLLSSWDFPRRKLMLPLLGV  
IFLNGNASPEEIIWEFLNMLGVDPYDGEHVSFGPEWKLITKDLVQEKYLEYKQVPSSDPPRFQLWGPRA  
AETSKMKVLEFLAKVNGTTPCAEFTYTHYEALKDDEEKAGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6316\\_a09.zip](https://cdn.origene.com/chromatograms/mk6316_a09.zip)

Restriction Sites: Sgfl-MluI

### Cloning Scheme:



ACCN: NM 002364

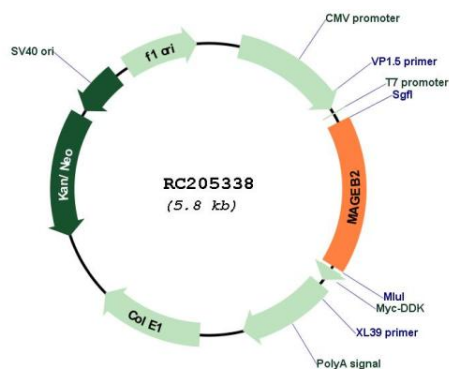
ORF Size: 957 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

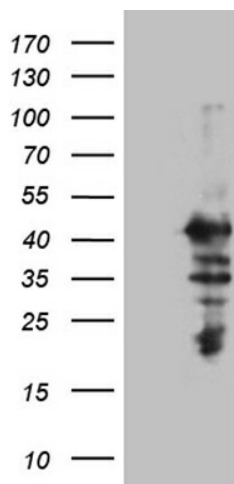
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_002364.5</a>
<b>RefSeq Size:</b>	1628 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	4113
<b>UniProt ID:</b>	<a href="#">O15479</a>
<b>Cytogenetics:</b>	Xp21.2
<b>MW:</b>	35.3 kDa
<b>Gene Summary:</b>	<p>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. It is expressed in testis and placenta, and in a significant fraction of tumors of various histological types. The MAGEB genes are clustered on chromosome Xp22-p21. [provided by RefSeq, Jul 2008]</p>

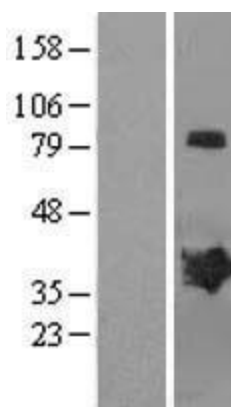
## Product images:



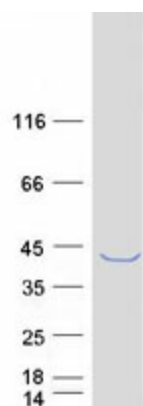
Circular map for RC205338



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAGEB2 (Cat# RC205338, 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-MAGEB2 (Cat# [TA811621])(1:2000). Positive lysates [LY419377] (100ug) and [LC419377] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419377]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205338 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAGEB2 protein (Cat# [TP305338]). The protein was produced from HEK293T cells transfected with MAGEB2 cDNA clone (Cat# RC205338) using MegaTran 2.0 (Cat# [TT210002]).