

Product datasheet for **RG205338**

MAGEB2 (NM_002364) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MAGEB2
Synonyms:	CT3.2; DAM6; MAGE-XP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205338 representing NM_002364
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCGTGGTCAGAAGAGTAAGCTCCGTGCCGTGAGAAACGCCGCAAGGCCCGAGATGAGACCCGGG
GTCTCAATGTTCTCAGGTCACTGAAGCAGAGGAAGAAGAGGCCCTGCTGTTCTTCTGTTTCTGG
GGGTGCTGCTTCAAGCTCTCTGCTGCTGGCATTCCCAGAGCCTCAGAGAGCCCCAACCACTGCCGCT
GCTGCAGCTGCGGGTGTTCATCCACAAAATCTAAAAAGGTGCCAAGAGCCACCAAGGTGAGAAAAATG
CAAGTTCCTCCAGGCCCTCAACATCTACTAAGAGCCCAAGCGAAGATCCTCTAACAGGAAGTCAGGGTC
GTTGGTGCAGTTCCTGTTGTACAAGTATAAAATAAAAAAGTCCGTTACAAAGGGAGAAATGCTGAAAATT
GTTGGCAAAAGGTTTCAGGGAGCACTTCCCTGAGATCCTCAAGAAAGCCTCTGAGGGCCTCAGTGTGTCT
TTGGCCTTGAGCTGAATAAAGTCAACCCCAACGGCCACCTTACACCTTCATCGACAAGGTAGACCTCAC
TGATGAGGAATCCCTGCTCAGTTCCTGGGACTTTCCAGGAGAAAGCTTCTGATGCCTCTCCTGGGTGTG
ATCTTCTTAAATGGCAACTCAGCTACTGAGGAAGAGATCTGGGAATTCCTGAATATGTTGGGAGTCTATG
ATGGAGAGGAGCACTCAGTCTTTGGGAACCTGGAAGCTCATCACAAAGATCTGGTGCAGGAAAAATA
TCTGGAGTACAAGCAGGTGCCCAGCAGTGATCCCCACGCTTCAATTCTGTGGGGTCCGAGAGCCTAT
GCTGAAACCAGCAAGATGAAAGTCTGGAGTTTTGGCCAAGGTAAATGGTACCACCCCTGTGCCTTCC
CAACCCATTACGAAGAAGCTTTGAAAGATGAAGAGAAAGCCGGAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG205338 representing NM_002364
Red=Cloning site Green=Tags(s)

MPRGQKSKLRAREKRRKARDETRGLNVPQVTEAEEEEAPCCSSSVSGGAASSSPAAGIPQKPQRAPTTAA
AAAAGVSSTKSKGAKSHQGEKNASSSQASTSTKSPSEDPLTRKSGSLVQFLLYKYIKKSVTKGEMLKI
VGKRFREHFPEILKKASEGLSVVFGLELNKVNPNNGHTYTFIDKVDLTDEESLLSSWDFPRRKLMLPLLV
IFLNGNSATEEEIWEFLNMLGVYDGEHVSFGEPWKLITKDLVQEKYLEYKQVPSSDPPRFQLWGPRAY
AETSKMKVLEFLAKVNGTTPCAFPTHYEEALKDEEKAGV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002364

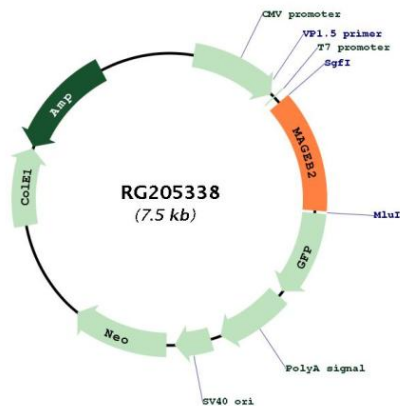
ORF Size: 957 bp

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 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](#)

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:	<u>NM_002364.3</u> , <u>NP_002355.1</u>
RefSeq Size:	1626 bp
RefSeq ORF:	960 bp
Locus ID:	4113
UniProt ID:	<u>O15479</u>
Cytogenetics:	Xp21.2
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. 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]

Product images:



Circular map for RG205338