

Product datasheet for **RC204018**

MAGEF1 (NM_022149) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAGEF1 (NM_022149) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAGEF1
Synonyms:	MAGE-F1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204018 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTTGCAGACACCAGAGAGCAGGGGGCTCCCGTCCCGCAGGCCGAGGGGAGAAGGATGGCGGCCATG
 ATGGTGAGACCCGGGCCCGACCGCCTCGCAGGAGCGCCCAAGGAGGAGCTTGGCGCCGGGAGGGAGGA
 GGGGGCTGCGGAGCCCGCCCTCACCCGAAAGGCGCGAGGGCCTTGGCGCCAAATCCTTGGCAAGGCGC
 AGGGCCTACCGCCGGCTGAATCGGACGGTGGCGGAGTTGGTGCAGTTCCTCCTGGTGAAAGACAAGAAGA
 AGAGTCCCATCACACGCTCGGAGATGGTAAATACGTTATTGGAGACTTGAAGATTCTGTTCCCGGACAT
 CATCGCAAGGGCCGAGAGCATCTGCGGTATGTCTTTGGTTTTGAGCTGAAACAGTTTGACCGCAAGCAC
 CACACTTACATCCTGATCAACAACTAAACCTCTGGAGGAGGAGGAGGAGGAGGATCTGGGAGGAG
 ATGGCCCCAGATTGGGTCTGTTAATGATGATCCTGGGCCCTTATCTATATGAGAGGTAATAGCGCCAGGGA
 GGCCCAGGTCTGGGAGATGCTGCGTGGTTGGGGTGCAACCCTCAAAGTATCATTTCTCTTTGGGTAT
 CCGAAGAGGCTTATTATGGAAGATTTTGTGCAGCAGCGATATCTCAGTTACAGGCGGGTGCCCTCACACCA
 ATCCACCAGCATATGAATTCTCTTGGGGTCCCCGAAGCAACCTGGAAATCAGCAAGATGGAAGTCCTGGG
 GTTCGTGGCCAACTGCATAAGAAGGAACCGCAGCACTGGCCAGTGCAGTACCGTGAGGCCCTAGCAGAC
 GAGGCCGACAGGGCCAGAGCCAAGGCCAGAGCTGAAGCCAGTATGAGGGCCAGGGCCAGTGCTAGGGCCG
 GCATCCACCTCTGG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC204018 protein sequence
 Red=Cloning site Green=Tags(s)

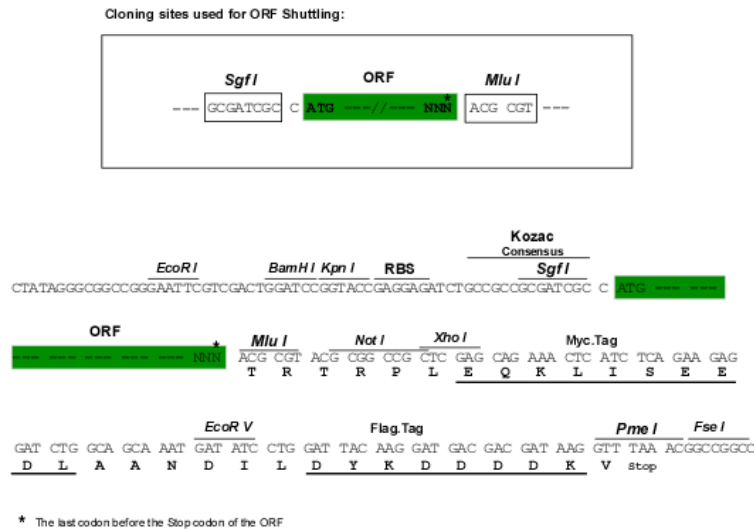
MLQTPESRGLPVPQAEGEKDGGHDGETRAPTASQERPKEELGAGREEGAAEPALTRKGARALAAKSLARR
 RAYRRLNRTVAELVQFLLVKDKKKSPITRSEMVKYVIGDLKILFPDIIARAAEHLRYVFGFELKQFDRKH
 HTYILINKLPLEEEEEEDLGDGPRLLGLIYMRGNSAREAQVWEMLRRLGVQPSKYHFLFGY
 PKRLIMEDFVQQRYSYRRVPHTNPPAYEFSWGPRSNLEISKMEVLGFVAKLHKKEPQHWPVQYREALAD
 EADRARAKARAEASMRARASARAGIHLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6422_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022149

ORF Size: 924 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_022149.1](#)

RefSeq Size: 1700 bp

RefSeq ORF: 924 bp

Locus ID: 64110

UniProt ID: [Q9HAY2](#)

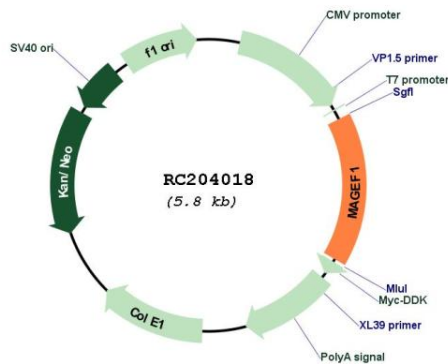
Cytogenetics: 3q27.1

Domains: MAGE

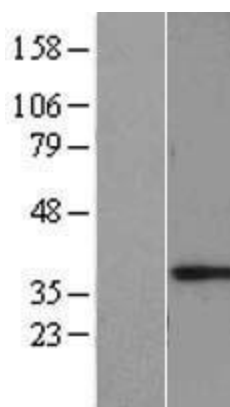
MW: 35.3 kDa

Gene Summary: This intronless gene encodes a member of the MAGE superfamily. It is ubiquitously expressed in normal tissues and in tumor cells. This gene includes a microsatellite repeat in the coding region. [provided by RefSeq, Jul 2008]

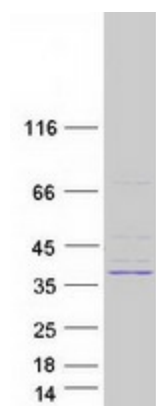
Product images:



Circular map for RC204018



Western blot validation of overexpression lysate (Cat# [LY411737]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204018 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAGEF1 protein (Cat# [TP304018]). The protein was produced from HEK293T cells transfected with MAGEF1 cDNA clone (Cat# RC204018) using MegaTran 2.0 (Cat# [TT210002]).