

Product datasheet for **RC223938**

MAGEA4 (NM_002362) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAGEA4 (NM_002362) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAGEA4
Synonyms:	CT1.4; MAGE-41; MAGE-X2; MAGE4; MAGE4A; MAGE4B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223938 representing NM_002362 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTTCTGAGCAGAAGAGTCAGCACTGCAAGCCTGAGGAAGGCGTTGAGGCCCAAGAAGAGGCCCTGG
GCCTGGTGGGTGCACAGGCTCCTACTACTGAGGAGCAGGAGGCTGCTGTCTCCTCCTCCTCCTCTGTT
CCCTGGCACCCTGGAGGAAGTGCCTGCTGCTGAGTCAGCAGGTCCTCCCCAGAGTCCTCAGGGAGCCTCT
GCCTTACCCACTACCATCAGCTTCACTTGTGAGGCAACCCAATGAGGGTTCCAGCAGCCAAGAAGAGG
AGGGGCCAAGCACCTCGCCTGACGCAGAGTCCTTGTCCGAGAAGCACTCAGTAACAAGGTGGATGAGTT
GGCTCATTCTGCTCCGCAAGTATCGAGCCAAGGAGCTGGTCACAAAGGCAGAAATGCTGGAGAGAGTC
ATCAAAAATTACAAGCGCTGCTTTCCTGTGATCTTCGGCAAAGCCTCCGAGTCCCTGAAGATGATCTTTG
GCATTGACGTGAAGGAAGTGGACCCCGCCAGCAACACCTACACCTTGTACCTGCCTGGGCCTTTCCTA
TGATGGCCTGCTGGGTAATAATCAGATCTTCCCAAGACAGGCCCTTGATAATCGTCTGGGCACAATT
GCAATGGAGGGGACAGCGCCTCTGAGGAGGAAATCTGGGAGGAGCTGGGTGTATGGGGGTGTATGATG
GGAGGGAGCAGTGTCTATGGGAGCCAGGAACTGCTCACCAAGATTGGGTGCAGGAAAACCTACCT
GGAGTACCGGCAGGTACCCGGCAGTAATCCTGCGCGCTATGAGTTCCTGTGGGGTCCAAGGGCTCTGGCT
GAAACCAGCTATGTGAAAGTCTGGAGCATGTGGTCAGGGTCAATGCAAGAGTTCGATTGCCTACCCAT
CCCTGCGTGAAGCAGCTTGTAGAGGAGGAAGAGGGAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC223938 representing NM_002362
 Red=Cloning site Green=Tags(s)

MSSEQKSQHKPEEGVEAQEEALGLVGAQAPTTEEQEA AVSSSSPLVPGTLEEVPAAESAGPPQSPQGAS
 ALPTTISFTCWRQPNEGSSSQEEEGPSTSPDAESLFREALSNKVDEL AHFLLRKYRAKELVTKAEMLERV
 IKNYKRCFPVIFGKASELSKMI FGDVKEVDPASNTYTLV TCLGLSYDGLLGNNQIFPKTGLLIIVLGTI
 AMEGDSASEEEIWEELGVMGVYDGREHTVYGEPRKLLTQDWVQENYLEYRQVPGSNPARYEFLWGPRALA
 ETSYVKVLEHVVRVNARVRIAYPSLREAAALLEEEEGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8076_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_002362

ORF Size: 951 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.

RefSeq: [NM_002362.4](#), [NP_002353.3](#)

RefSeq Size: 1727 bp

RefSeq ORF: 954 bp

Locus ID: 4103

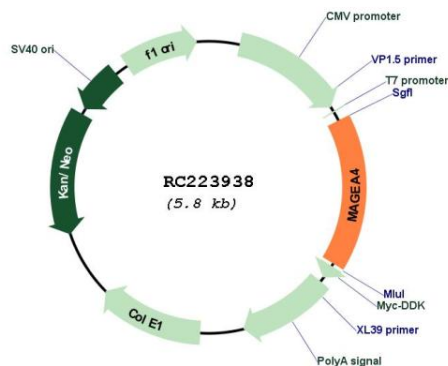
UniProt ID: [P43358](#)

Cytogenetics: Xq28

MW: 34.7 kDa

Gene Summary: This gene is a member of the MAGEA gene family. The members of this family encode proteins with 50 to 80% sequence identity to each other. The promoters and first exons of the MAGEA genes show considerable variability, suggesting that the existence of this gene family enables the same function to be expressed under different transcriptional controls. The MAGEA genes are clustered at chromosomal location Xq28. They have been implicated in some hereditary disorders, such as dyskeratosis congenita. Several variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2020]

Product images:



Circular map for RC223938