

Product datasheet for RC223991

MAGEA4 (NM_001011550) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAGEA4 (NM_001011550) 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:	>RC223991 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTCTTCTGAGCAGAAGAGTCAGCACTGCAAGCCTGAGGAAGGCGTTGAGGCCCAAGAAGAGGCCCTGG
GCCTGGTGGGTGCACAGGCTCCTACTACTGAGGAGCAGGAGGCTGCTGTCTCCTCCTCCTCCTCTGCT
CCCTGGCACCCCTGGAGGAAGTGCCTGCTGCTGAGTCAGCAGGTCCTCCCCAGAGTCCTCAGGGAGCCTCT
GCCTTACCCACTACCATCAGCTTCACTTGTGGAGGCAACCCAATGAGGGTTCCAGCAGCCAAGAAGAGG
AGGGGCCAAGCACCTCGCCTGACGAGAGTCCTTGTCCGAGAAGCACTCAGTAACAAGGTGGATGAGTT
GGCTCATTTTCTGCTCCGCAAGTATCGAGCCAAGGAGCTGGTCACAAAGGCAGAAATGCTGGAGAGAGTC
ATCAAAAATTACAAGCGCTGCTTTCCTGTGATCTTCGGCAAAGCCTCCGAGTCCCTGAAGATGATCTTTG
GCATTGACGTGAAGGAAGTGGACCCACCAGCAACACCTACACCTTGTACCTGCCTGGGCCTTTCCTA
TGATGGCCTGCTGGGTAATAATCAGATCTTCCCAAGACAGGCCCTTGATAATCGTCTGGGCACAATT
GCAATGGAGGGGACAGCGCCTCTGAGGAGGAAATCTGGGAGGAGCTGGGTGTGATGGGGGTGTATGATG
GGAGGGAGCACACTGTCTATGGGAGCCAGGAAACTGCTCACCAAGATTGGGTGCAGGAAAACCTACCT
GGAGTACCGGCAGGTACCCGGCAGTAATCCTGCGCGCTATGAGTTCCTGTGGGGTCCAAGGGCTCTGGCT
GAAACCAGCTATGTGAAAGTCTGGAGCATGTGGTCAGGGTCAATGCAAGAGTTCGATTGCCTACCCAT
CCCTGCGTGAAGCAGCTTGTAGAGGAGGAAGAGGGAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223991 protein sequence
Red=Cloning site Green=Tags(s)

MSSEQKSQHKPEEGVEAQEEALGLVGAQAPTTEEQA AVSSSSPLVPGTLEEVPAAESAGPPQSPQGAS
 ALPTTISFTCWRQPNEGSSSQEEEGPSTSPDAESLFREALSNKVDEL AHFLLRKYRAKELVTKAEMLERV
 IKNYKRCFPVIFGKASELSKMI FGDVKEVDPTSNTYTLV TCLGLSYDGLLGNNQIFPKTGLLIIVLGTI
 AMEGDSASEEEIWEELGVMGVYDGREHTVYGEPRKLLTQDWVQENYLEYRQVPGSNPARYEFLWGPRALA
 ETSYVKVLEHVVRVNARVRIAYPSLREAAALLEEEEGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6311_b11.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_001011550

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_001011550.1](#), [NP_001011550.1](#)

RefSeq Size: 1712 bp

RefSeq ORF: 954 bp

Locus ID: 4103

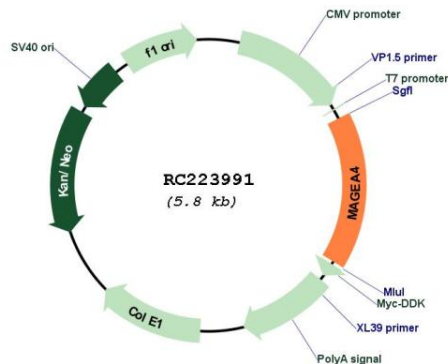
UniProt ID: [P43358](#)

Cytogenetics: Xq28

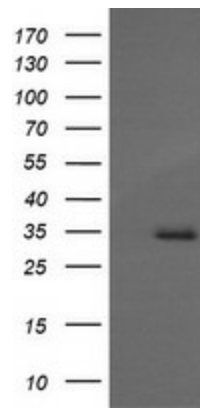
MW: 34.9 kDa

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]

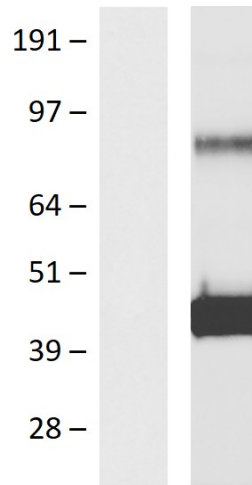
Product images:



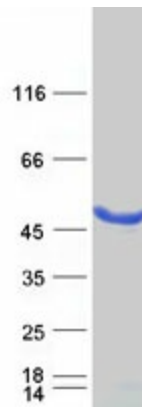
Circular map for RC223991



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAGEA4 (Cat# RC223991, 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-MAGEA4 (Cat# [TA505362]). Positive lysates [LY423276] (100ug) and [LC423276] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY423274]) using anti-DDK antibody (Cat# [TA592569]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC218952] using transfection reagent PEI.



Coomassie blue staining of purified MAGEA4 protein (Cat# [TP323991]). The protein was produced from HEK293T cells transfected with MAGEA4 cDNA clone (Cat# RC223991) using MegaTran 2.0 (Cat# [TT210002]).