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Product datasheet for RC202501

MAGEA10 (NM_001011543) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAGEA10 (NM_001011543) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAGEA10
Synonyms:	CT1.10; MAGE10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202501 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCGAGCTCCAAAGCGTCAGCGCTGCATGCCTGAAGAAGATCTTCAATCCCAAAGTGAGACACAGG
GCCTCGAGGGTGCACAGGCTCCCCTGGCTGTGGAGGAGGATGCTTCATCATCCACTTCCACCAGCTCCTC
TTTTCCATCCTCTTTTCCCTCCTCCTCCTCTTCCTCCTCCTCCTCCTGCTATCCTCTAATACCAAGCACC
CCAGAGGAGGTTTCTGCTGATGATGAGACACCAAATCCTCCCCAGAGTGCTCAGATAGCCTGCTCCTCCC
CCTCGGTCGTTGCTTCCCTTCCATTAGATCAATCTGATGAGGGCTCCAGCAGCCAAAAGGAGGAGAGTCC
AAGCACCCTACAGGTCCTGCCAGACAGTGAGTCTTTACCCAGAAGTGAGATAGATGAAAAGGTGACTGAT
TTGGTGCAGTTTCTGCTCTTCAAGTATCAAATGAAGGAGCCGATCACAAAGGCAGAAATACTGGAGAGTG
TCATAAAAAATTATGAAGACCACTTCCCTTTGTTGTTTAGTGAAGCCTCCGAGTGCATGCTGCTGGTCTT
TGGCATTGATGTAAAGGAAGTGGATCCCACTGGCCACTCCTTTGTCCTTGTCACCTCCCTGGGCCTCACC
TATGATGGGATGCTGAGTGATGTCCAGAGCATGCCCAAGACTGGCATTCTCATACTTATCCTAAGCATAA
TCTTCATAGAGGGCTACTGCACCCCTGAGGAGGTCATCTGGGAAGCACTGAATATGATGGGGCTGTATGA
TGGGATGGAGCACCTCATTTATGGGGAGCCCAGGAAGCTGCTCACCCAAGATTGGGTGCAGGAAAACTAC
CTGGAGTACCGGCAGGTGCCTGGCAGTGATCCTGCACGGTATGAGTTTCTGTGGGGTCCAAGGGCTCATG
CTGAAATTAGGAAGATGAGTCTCCTGAAATTTTTGGCCAAGGTAAATGGGAGTGATCCAAGATCCTTCCC
ACTGTGGTATGAGGAGGCTTTGAAAGATGAGGAAGAGAGAGCCCAGGACAGAATTGCCACCACAGATGAT
ACTACTGCCATGGCCAGTGCAAGTTCTAGCGCTACAGGTAGCTTCTCCTACCCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC202501 protein sequence
Red=Cloning site Green=Tags(s)

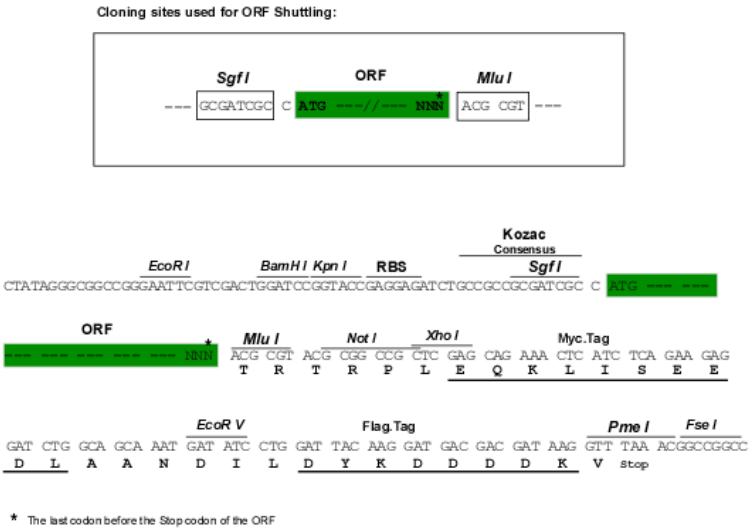
MPRAPKRQRCMPEEDLQSQSETQGLEGAQAPLAVEEDASSSTSTSSSFPSSFPSSSSSSSSSCYPLIPST
PEEVSADDETPNPPQSAQIACSSPSVVASLPLDQSDEGSSSQKEESPSTLQVLPDSESLPRSEIDEKVTD
LVQFLLFKYQMKEPITKAEILESVIKNYEDHFPLLFSEASECMLLVFGIDVKEVDPTGHSFVLVTSLGLT
YDGMLSDVQSMPKTGILILILSIIFIEGYCTPEEVIWEALNMMGLYDGMEHLIYGEPRKLLTQDWVQENY
LEYRQVPGSDPARYEFLWGPRAHAEIRKMSLLKFLAKVNGSDPRSFPLWYEEALKDEEERAQDRIATTDD
TTAMASASSSATGSFSYPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6405_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001011543

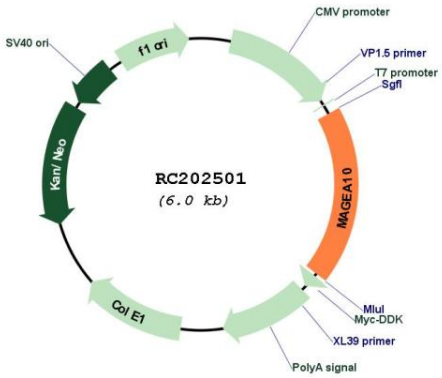
ORF Size: 1107 bp

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.

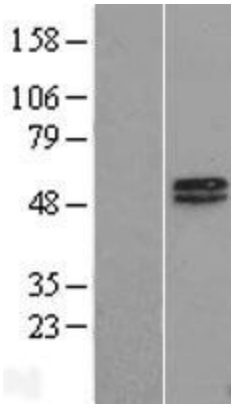
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
RefSeq:	NM_001011543.1, NP_001011543.1
RefSeq Size:	2759 bp
RefSeq ORF:	1110 bp
Locus ID:	4109
UniProt ID:	P43363
Cytogenetics:	Xq28
MW:	40.8 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. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the downstream melanoma antigen family A, 5 (MAGEA5) gene.[provided by RefSeq, Oct 2011]

Product images:



Circular map for RC202501



Western blot validation of overexpression lysate (Cat# [LY412120]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC223638] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).