

Product datasheet for **RC203288**

MAGEA3 (NM_005362) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAGEA3 (NM_005362) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAGEA3
Synonyms:	CT1.3; HIP8; HYPD; MAGE3; MAGEA6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC203288 representing NM_005362 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCCGAGGAGGCCCTGG
GCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTTCTACTCTAGTTGA
AGTCACCCTGGGGGAGGTGCCTGCTGCCGAGTCACCAGATCCTCCCAGAGTCTCAGGGAGCCTCCAGC
CTCCCCACTACCATGAACTACCTCTCTGGAGCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGG
GGCCAAGCACCTTCCCTGACCTGGAGTCCGAGTTCGAAGCAGCACTCAGTAGGAAGTGGCCGAGTTGGT
TCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCAAAAAGCAGAAATGCTGGGGAGTGTCTGTC
GGAAATTGGCAGTATTTCTTTCTGTGATCTTCAGCAAAGCTTCCAGTTCCTTGCAGCTGGTCTTTGGCA
TCGAGCTGATGGAAGTGGACCCCATCGGCCACTTGTACATCTTTGCCACCTGCCTGGGCCTCTCTACGA
TGGCCTGCTGGGTGACAATCAGATCATGCCAAGGCAGGCCTCCTGATAATCGTCTGGCCATAATCGCA
AGAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGTTTGGGGGA
GGGAAGACAGTATCTTGGGGATCCCAAGAAGCTGCTCACCAACATTTCTGTCAGGAAAACCTACCTGGA
GTACCGCAGGTCCCGCAGTGATCCTGCATGTTATGAATTCCTGTGGGGTCCAAGGGCCCTCGTTGAA
ACCAGCTATGTGAAAGTCTGCACCATATGGTAAAGATCAGTGGAGGACCTCACATTTCTACCCACCC
TGCATGAGTGGTTTTGGAGAGGGGAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203288 representing NM_005362
 Red=Cloning site Green=Tags(s)

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSTLVEVTLGEVPAESPDPQPQSGASS
 LPTTMNYPLWSQSYEDSSNQEEEGPSTFPDLESEFQAALSRKVAELVHFLLLKYRAREPVTKAEMLGSVV
 GNWQYFFPVIFSKASSLQLVFGIELMEVDPIGHLIYIFATCLGLSYDGLLDGNQIMPKAGLLIIVLAIIA
 REGDCAPEEKIWEELSVLEVFEGREDSILGDPKLLTQHFVQENYLEYRQVPGSDPACYEFLWGPRALVE
 TSYVKVLHMHVKISGGPHISYPPLHEWVLRGEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

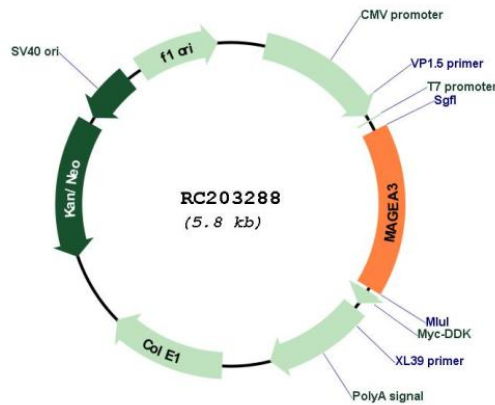
Chromatograms: https://cdn.origene.com/chromatograms/mg3623_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



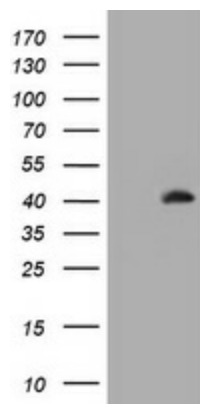
Plasmid Map:



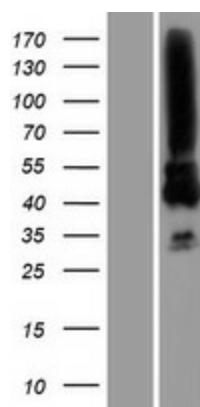
ACCN: NM_005362

ORF Size:	942 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_005362.4
RefSeq Size:	1753 bp
RefSeq ORF:	945 bp
Locus ID:	4102
UniProt ID:	P43357
MW:	34.6 kDa
Gene Summary:	<p>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. [provided by RefSeq, Jul 2008]</p>

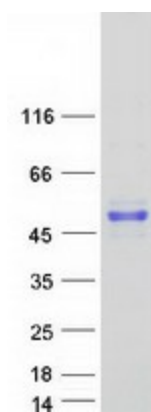
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAGEA3 (Cat# RC203288, 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-MAGEA3 (Cat# [TA800826]). Positive lysates [LY417358] (100ug) and [LC417358] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417358]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203288 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAGEA3 protein (Cat# [TP303288]). The protein was produced from HEK293T cells transfected with MAGEA3 cDNA clone (Cat# RC203288) using MegaTran 2.0 (Cat# [TT210002]).