

## Product datasheet for RC218575

### MAGEA5 (NM\_021049) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MAGEA5 (NM\_021049) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MAGEA5  
**Synonyms:** CT1.5; MAGE5; MAGEA4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC218575 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCTCTTGAGCAGAAGAGTCAGCACTGCAAGCCTGAGGAAGGCCTTGACACCCAAGAAGAGGCCCTGG  
GCCTGGTGGGTGTGCAGGCTGCCACTACTGAGGAGCAGGAGGCTGTGTCTCCTCCTCCTCTGGTCCC  
AGGCACCTGGGGAGGTGCCTGCTGCTGGGTACCAGGCTCTCAAGAGTCTCAGGGAGCCTCCGCC  
ATCCCACTGCCATCGATTTCACTCTATGGAGGCAATCCATTAAGGGCTCCAGCAACCAAGAAGAGGAGG  
GGCCAAGCACCTCCCCTGACCCAGAGTCTGTGTTCCGAGCAGCACTCAGTAAGAAGTGGCTGACTTGAT  
TCATTTTCTGCTCCTCAAGTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC218575 protein sequence  
Red=Cloning site Green=Tags(s)  
MSLEQKSQHCKPEEGLDTQEEALGLVGVAATTEEQEAVSSSSPLVPGTLGEVPAAGSPGPLKSPQGASA  
IPTAIDFTLWRQSIKSSNQEEEPSTSPDPESVFRAALSKKVADLIHFLLLKY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6457\\_d05.zip](https://cdn.origene.com/chromatograms/mk6457_d05.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_021049

**ORF Size:** 372 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\\_021049.4](#)

**RefSeq Size:** 1664 bp

**RefSeq ORF:** 375 bp

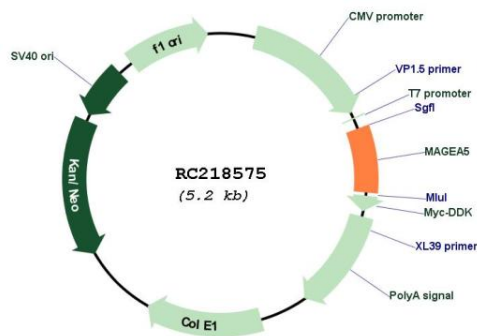
**Locus ID:** 4104

**UniProt ID:** [P43359](#)

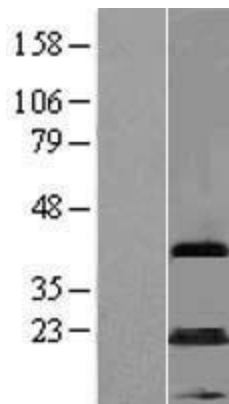
**Cytogenetics:** Xq28  
**MW:** 13 kDa  
**Gene Summary:**

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. This MAGEA gene is interpreted to be a pseudogene. Read-through transcription exists between this gene and the upstream melanoma antigen family A, 10 (MAGEA10) gene. [provided by RefSeq, Dec 2020]

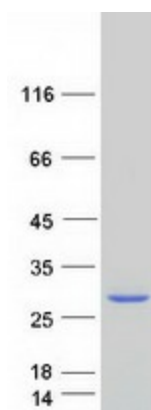
**Product images:**



Circular map for RC218575



Western blot validation of overexpression lysate (Cat# [LY412121]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218575 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAGEA5 protein (Cat# [TP318575]). The protein was produced from HEK293T cells transfected with MAGEA5 cDNA clone (Cat# RC218575) using MegaTran 2.0 (Cat# [TT210002]).