

## Product datasheet for **RG218575**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MAGEA5 (NM\_021049) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MAGEA5  
**Synonyms:** CT1.5; MAGE5; MAGEA4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG218575 representing NM\_021049  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCTCTTGAGCAGAAGAGTCAGCACTGCAAGCCTGAGGAAGGCCTTGACACCCAAGAAGAGGCCCTGG  
 GCCTGGTGGGTGTGCAGGCTGCCACTACTGAGGAGCAGGAGGCTGTGTCTCCTCCTCTCCTCTGGTCCC  
 AGGCACCCTGGGGAGGTGCCTGCTGCTGGGTACCAGGTCCTCAAGAGTCCTCAGGGAGCCTCCGCC  
 ATCCCCACTGCCATCGATTTCACTCTATGGAGGCAATCCATTAAGGGCTCCAGCAACCAAGAAGAGGAGG  
 GGCCAAGCACCTCCCCTGACCCAGAGTCTGTGTTCCGAGCAGCACTCAGTAAGAAGGTGGCTGACTTGAT  
 TCATTTTCTGCTCCTCAAGTAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG218575 representing NM\_021049  
 Red=Cloning site Green=Tags(s)  
 MSLEQKSQHCKPEEGLDTQEEALGLVGVAATTEEQEAVSSSSPLVPGTLGEVPAAGSPGPLKSPQGASA  
 IPTAIDFTLWRQSIKGSNNQEEEPSTSPDPESVFRAALSKKVADLIHFLLLKY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-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:** 1692 bp

**RefSeq ORF:** 375 bp

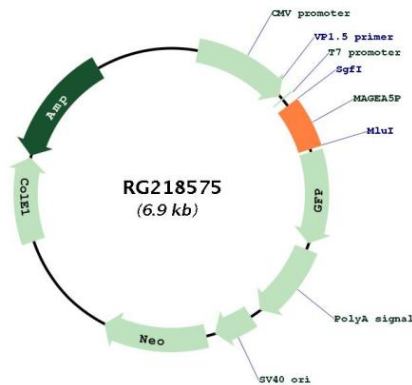
Locus ID: 4104

UniProt ID: [P43359](#)

Cytogenetics: Xq28

**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 RG218575