

## Product datasheet for **RG237387**

### MAGEA2 (NM\_001282505) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAGEA2 (NM_001282505) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAGEA2
Synonyms:	CT1.2; MAGE2; MAGEA2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237387 representing NM_001282505. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCTTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCCGAGGAGAGGCCCTG
GGCCTGGTGGGTGCGCAGGCTCTGCTACTGAGGAGCAGCAGACCGCTTCTTCTCTTCTACTCTAGTG
GAAGTTACCTGGGGGAGGTGCTGCTGCCGACTCACCGAGTCTCCACAGTCCTCAGGGAGCCTCC
AGCTTCTCGACTACCATCAACTACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACCAAGAAGAG
GAGGGCCAAGAATGTTCCCGACTGGAGTCCGAGTTCCAAGCAGCAATCAGTAGGAAGATGGTTGAG
TTGGTTCAATTTCTGCTCCTCAAGTATCAAGCCAGGGAGCCGGTCACAAAGGCAGAAATGCTGGAGAGT
GTCCTCAGAAATTGCCAGGACTTCTTCCCGTGATCTTACGAAAGCCTCCGAGTACTTGCAGCTGGTC
TTTGGCATCGAGGTGGTGAAGTGGTCCCATCAGCCACTTGTACATCCTTGTACCTGCCTGGGCCTC
TCCTACGATGGCCTGCTGGGCGACAATCAGGTCATGCCCAAGACAGGCCTCCTGATAATCGTCTGGCC
ATAATCGCAATAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTG
TTGAGGGGAGGGAGGACAGTGTCTTCGCACATCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAA
AACTACCTGGAGTACCGGCAGGTGCCGGCAGTGATCTGCATGCTACGAGTTCCTGTGGGTCCAAGG
GCCCTCATTGAAACCAGCTATGTGAAAGTCTGCACCATACACTAAAGATCGGTGGAGAACCTCACATT
TCCTACCCACCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237387  
 Blue=ORF Red=Cloning site Green=Tag(s)

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSSTLVEVTLGEVPAADSPSPHSPQGAS  
 SFSTTINYTLWRQSDGSSNQEEGPRMFDLESEFQAAISRKMVELVHFLLLKYQAREPVTKAEMLES  
 VLRNCQDFFPVIFSKASEYLQLVFGIEVVEVVPISHLYILVTCLGLSYDGLLDGNQVMPKTLGLLIIVLA  
 IIAIEGDCAPEEKIWEELSMLEVFEGREDSVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPR  
 ALIETSYVKVLHHTLKIGGEPHISYPPLHERALREGEE  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001282505

**ORF Size:** 942 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).

**RefSeq:** [NM\\_001282505.1](#), [NP\\_001269434.1](#)

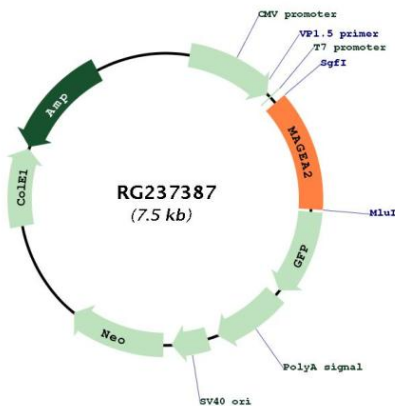
**RefSeq Size:** 1680 bp

**RefSeq ORF:** 945 bp

Locus ID: 4101  
UniProt ID: [P43356](#)  
Cytogenetics: Xq28  
MW: 35 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 gene has two identical copies at different loci. Alternatively spliced transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG237387