

Product datasheet for **RG208962**

MAGEA2 (NM_175743) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAGEA2 (NM_175743) 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: >RG208962 representing NM_175743
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCGAGGAGAGGCCCTGG
GCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTTCTCCTTCTACTCTAGTGGA
AGTTACCCTGGGGAGGTGCCTGCTGCCGACTCACCGAGTCTCCACAGTCTCAGGGAGCCTCCAGC
TTCTCGACTACCATCACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACCAAGAAGAGGAGG
GGCAAGAATGTTCCCGACCTGGAGTCCGAGTCCAAGCAGCAATCAGTAGGAAGATGGTTGAGTTGGT
TCAATTTCTGCTCCTCAAGTATCAAGCCAGGGAGCCGGTCAAAAAGGCAGAAATGCTGGAGAGTGTCTC
AGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGCAGCTGGTCTTTGGCA
TCGAGGTGGTGAAGTGGTCCCATCAGCCACTTGACATCCTTGTACCTGCCTGGGCCTCTCCTACGA
TGGCCTGCTGGGCGACAATCAGGTATGCCAAGACAGGCCTCCTGATAATCGTCTGGCCATAATCGCA
ATAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGGGGGA
GGGAGGACAGTGTCTTCGCACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACCTACCTGGA
GTACCGGCAGGTGCCCGCAGTATCCTGCATGCTACGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAA
ACCAGCTATGTGAAAGTCTGCACCATACTAAAGATCGGTGGAGAACCTCACATTTCTACCCACCCC
TGCATGAACGGGCTTTGAGAGAGGGAGAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208962 representing NM_175743
Red=Cloning site Green=Tags(s)

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSSTLVEVTLGEPVPAADSPSPPHSPQGASS
 FSTTINYTLWRQSDDEGSSNQEEEGPRMFPDLESEFQAAISRKMVELVHFLLLKYQAREPVTKAEMLESVL
 RNCQDFFPVIFSKASEYLQLVFGIEVVEVVPISHLYILVTCLGLSYDGLLDGNQVMPKTGLLIIVLAIIA
 IEGDCAPEEKIWEELSMLEVFEGREDSVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRLAIE
 TSYVKVLHHTLKI GGEPHISYPPLHERALREGEE

TRTRPLE - GFP Tag - V

Restriction Sites:

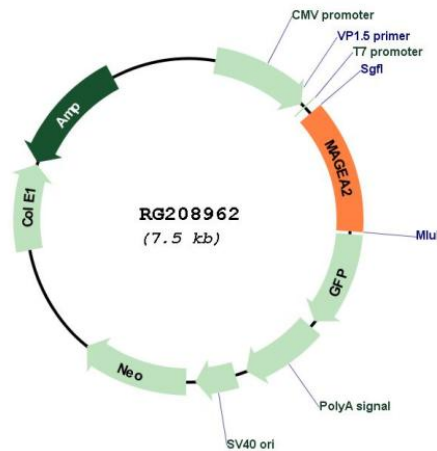
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_175743

ORF Size: 942 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_175743.1 , NP_786885.1 |
| RefSeq Size: | 1981 bp |
| RefSeq ORF: | 945 bp |
| Locus ID: | 4101 |
| UniProt ID: | P43356 |
| 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 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] |