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# Product datasheet for RG208544

## MAGEE1 (NM_020932) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | MAGEE1 (NM_020932) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | MAGEE1 |
| **Synonyms:** | DAMAGE; HCA1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>RG208544 representing NM_020932
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTCTGGTAAGCCAGAATTCGCGCCGCCGCCGCCGCCGCGTTGCAAAGGCTACTGCGCACAACAGCA
GCTGGGGCGAAATGCAGGCCCCTAATGCCCCCGGTCTCCCCGCTGATGTGCCAGGCTCAGACGTCCCCCA
GGGTCCCAGCGATTCCCAGATCCTCCAGGGCCTCTGCGCCTCTGAGGGCCCAAGCACCTCCGTTCTGCCC
ACCTCCGCTGAGGGCCCAAGCACCTTTGTGCCGCCCACCATCTCTGAGGCCTCAAGCGCCTCCGGGCAGC
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TCCCACCATCTCTAAGGGGCTGTGCACCTCTGTGACGCTTGCCGCCTCTGAGGGCCGGAACACCTCCAGG
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CGTGGTGCCCACCCCTGATGAGGGACCAAGCACCTCCGTGCTGCCTACACCTGGTGAGGGACCAGGCACC
TCCGTGCCGCTCGCCGCCACTGAGGGCCTGAGCACCTCCGTGCAGGCCACTCCTGATGAGGGACCGAGCA
CCTCCGTGCCGCCCACCGCCACTGAGGGCCTAAGCACCCCCGTGCCACCCACCCGTGATGAGGGACCGAG
CACCTCCGTGCCGGCCACTCCTGGTGAGGGACCGAGCACCTCCGTGCTGCCCGCCGCCTCTGACGGACAA
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AGTCTGAAATGCGGGAATATATTGTTAAAGAATATCGCAACCAGTTTCCTGAGATACTCAGGCGAGCAGC
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CAAGGCAAGGAAGCTGGTGCAGTTATTTCTGCTTATGGATTCAACTAAGCTGCCTATACCAAAGAAAGGA
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AAGATGAAAGCCTTGCGATATGTGGCCAGAATCCACAGAAAGGAACCACAGGACTGGCCACAGCAGTACA
GGGAGGCAATGGAAGATGAGGCCAATAGAGCTGATGTTGGGCACAGGCAAATCTTTGTTCACAACTTCAG
G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208544 representing NM_020932
Red=Cloning site Green=Tags(s)

MSLVSQNSRRRRRRVAKATAHNSSWGEMQAPNAPGLPADVPGSDVPQGPSDSQILQGLCASEGPSTSVLP
TSAEGPSTFVPPTISEASSASGQPTISEGPGTSVLPTPSEGLSTSGPPTISKGLCTSVTLAASEGRNTSR
PPTSSEEPSTSVPPTASEVPSTSLPPTPGEGTSTSVPPTAYEGPSTSVVPTPDEGPSTSVLPTPGEGPGT
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SISLVPTRGKGSSTSVPPTATEGLSTSVQPTAGEGSSTSVPPTPGGGLSTSVPPTATEELSTSVPPTPGE
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SVDRNPSKCSLVLPSPRVTKASVDSDSEGPKGAEGPIEFEVLRDCESPNSISIMGLNTSRVAITLKPQDP
MEQNVAELLQFLLVKDQSKYPIRESEMREYIVKEYRNQFPEILRRAAAHLECIFRFELRELDPEAHTYIL
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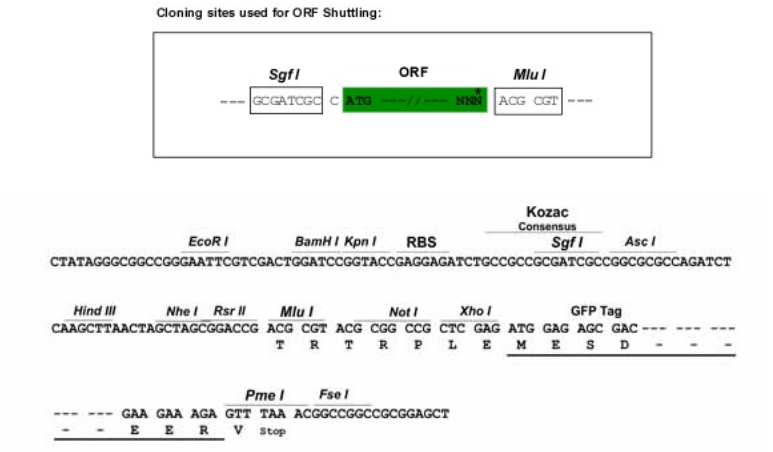
EGWQALPHFRRPFFEEAAAEVPSPDSEVSSYSSKYAPHSWPESRLESKARKLVQLFLLMDSTKLPIPKKG
ILYYIGRECSKVFPDLLNRAARTLNHVYGTELVVLDPRNHSYTLYNRREMEETEEIVDSPNRPGNNFLMQ
VLSFIFIMGNHARESAVWAFLRGLGVQAGRKHVITCRYLSQRYIDSLRVPDSDPVQYEFVWGPRARLETS
KMKALRYVARIHRKEPQDWPQQYREAMEDEANRADVGHRQIFVHNFR

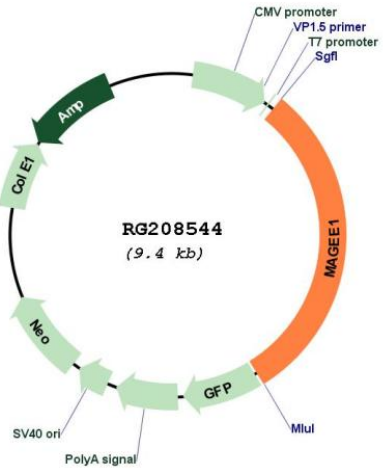
TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



Plasmid Map:




| | |
|---|---|
| **ACCN:** | NM_020932 |
| **ORF Size:** | 2871 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_020932.3 |
| **RefSeq Size:** | 3628 bp |
| **RefSeq ORF:** | 2874 bp |
| **Locus ID:** | 57692 |
| **UniProt ID:** | Q9HCI5 |

**Cytogenetics:** Xq13.3

**Gene Summary:** This gene encodes an alpha-dystrobrevin-associated MAGE (melanoma-associated antigen) protein, which is a member of the MAGE family. The protein contains a nuclear localization signal in the N-terminus, 30 12-amino acid repeats beginning at nt 60 with the consensus sequence ASEGPSTSVLPT, and two MAGE domains in the C-terminus. It may play a signaling role in brain, muscle, and peripheral nerve. This gene is located on X chromosome in a region containing loci linked to cognitive disability. [provided by RefSeq, Mar 2010]