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# Product datasheet for MG203055

## Emg1 (NM_013536) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Emg1 (NM_013536) Mouse Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | Emg1 |
| **Synonyms:** | C2f; Grcc2f |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>MG203055 representing NM_013536
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGCGGCCAGTGGTGGCTTCCAACCTCGTGAGCGGCGATTTTCAGTGCAGGAGCAGGACTGGGAGA
CTACGCCGCCTAAGAAGCTCCGGCTTGGGGCAGGAAGCAAGTGCGGAGGCCGGAGGCTCATTGTGGTGCT
GGAAGGGGCCAGTCTGGAGACAGTCAAGGTAGGGAAAACTTACGAGCTACTCAACTGTGACAGGCACAAG
TCCATGTTGTTGAAGAATGGACGGGACCCAGGGGAAGTCAGACCAGACATCACCCACCAGAGCCTGCTGA
TGCTTATGGACAGCCCCCTGAACCGAGCTGGCTTGCTACAGGTTTACATCCACACACAGAAGAACGTGCT
GATTGAAGTGAACCCCCAGACTCGAATTCCTAGAACCTTTGACCGATTTTGTGGCCTCATGGTTCAGCTT
TTACACAAACTGAGCGTCCGAGCAGCCGACGGCCCTCAGAAGCTATTGAAGGTAATTAAGAATCCAGTGT
CCGACCACTTCCCAGTTGGCTGTATGAAAATTGGCACTTCCTTTTCTGTTGAAGACATCAGTGACATTCG
AGAGTTGGTGCCCAGTAGTGACCCAGTTGTGTTTGTGGTGGGGGCCTTTGCCCATGGCAAGGTCAGTGTG
GAGTACACAGAAAAGATGGTGTCCATCAGCAACTATCCACTCTCTGCTGCGCTTACCTGTGCTAAAGTCA
CCACAGCTTTTGAAGAAGTATGGGGTGTCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:**

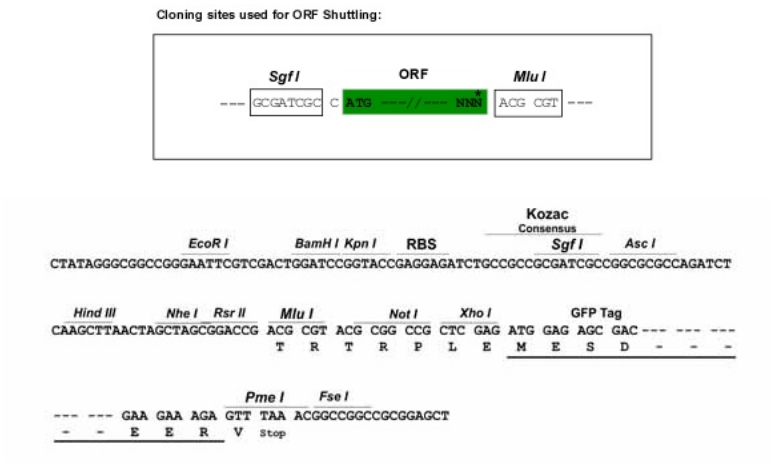
>MG203055 representing NM_013536
Red=Cloning site Green=Tags(s)

MSAASGGFQPRERRFSVQEQDWETTPPKKLRLGAGSKCGGRRLIVVLEGASLETVKVGKTYELLNCDRHK
SMLLKNGRDPGEVRPDITHQSLLMLMDSPLNRAGLLQVYIHTQKNVLIEVNPQTRIPRTFDRFCGLMVQL
LHKLSVRAADGPQKLLKVIKNPVSDHFPVGCMKIGTSFSVEDISDIRELVPSSDPVVFVVGAFAHGKVSV
EYTEKMVSISNYPLSAALTCAKVTTAFEEVWGVI

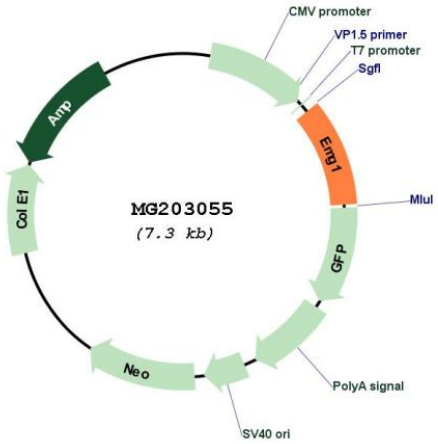
TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_013536

**ORF Size:** 732 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_013536.2 |
| **RefSeq Size:** | 978 bp |
| **RefSeq ORF:** | 735 bp |
| **Locus ID:** | 14791 |
| **UniProt ID:** | O35130 |
| **Cytogenetics:** | 6 59.17 cM |
| **Gene Summary:** | S-adenosyl-L-methionine-dependent pseudouridine N(1)-methyltransferase that methylates pseudouridine at position 1248 (Psi1248) in 18S rRNA. Involved the biosynthesis of the hypermodified N1-methyl-N3-(3-amino-3-carboxypropyl) pseudouridine (m1acp3-Psi) conserved in eukaryotic 18S rRNA. Is not able to methylate uridine at this position. Has also an essential role in 40S ribosomal subunit biogenesis independent on its methyltransferase activity, facilitating the incorporation of ribosomal protein S19 during the formation of pre-ribosomes.[UniProtKB/Swiss-Prot Function] |