

## Product datasheet for MR203055

### Emg1 (NM\_013536) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Emg1 (NM_013536) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Emg1
Synonyms:	C2f; Grcc2f
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203055 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGCGGCCAGTGGTGGCTTCCAACCTCGTGAGCGGCGATTTTCAGTGCAGGAGCAGGACTGGGAGA  
CTACGCCGCTAAGAAGCTCCGGCTTGGGGCAGGAAGCAAGTCCGGAGGCCGGAGGCTCATTGTGGTGCT  
GGAAGGGGCCAGTCTGGAGACAGTCAAGGTAGGGAAAACCTACGAGCTACTCAACTGTGACAGGCACAAG  
TCCATGTTGTTGAAGAATGGACGGGACCCAGGGAAAGTCAGACCAGACATCACCCACCAGAGCCTGCTGA  
TGCTTATGGACAGCCCCCTGAACCGAGCTGGCTTGCTACAGGTTTACATCCACACACAGAAGAACGTGCT  
GATTGAAGTGAACCCCCAGACTCGAATTCCTAGAACCTTTGACCGATTTTGTGGCCTCATGGTTCAGCTT  
TTACACAAACTGAGCGTCCGAGCAGCCGACGGCCCTCAGAAGCTATTGAAGGTAATTAAGAATCCAGTGT  
CCGACCACTTCCCAGTTGGCTGTATGAAAATTGGCACTTCCTTTTCTGTTGAAGACATCAGTGACATTCCG  
AGAGTTGGTGCCAGTAGTGACCCAGTTGTGTTTGTGGTGGGGCCCTTGGCCATGGCAAGGTCAGTGTG  
GAGTACACAGAAAAGATGGTGTCCATCAGCAACTATCCACTCTCTGCTGCGCTTACCTGTGCTAAAGTCA  
CCACAGCTTTTGAAGAAGTATGGGGTGCATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203055 protein sequence  
Red=Cloning site Green=Tags(s)

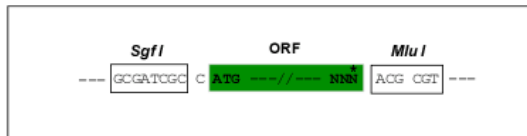
MSAASGGFQPRRRFSVQEQDWETTPPKLRLGAGSKCGRRLLVVLEGASLETVKVGKTYELLNCDRHK  
 SMLLKNGRDPGEVRPDITHQSLMLMDSPLNRAGLLQVYIHTQKNVLEIENPQTRIPRTFDRFCGLMVQL  
 LHKLSVRAADGPQKLLKVIKNPVSDFHPVGCMIKIGTSFVSDISDIRELVPSSDPVVFVVGAFAHGKVS  
 EYTEKMVSISNYPLSAALTCAKVTTAFEEVWGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_013536

**ORF Size:** 735 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\\_013536.2](#)

**RefSeq Size:** 1086 bp

**RefSeq ORF:** 735 bp

**Locus ID:** 14791

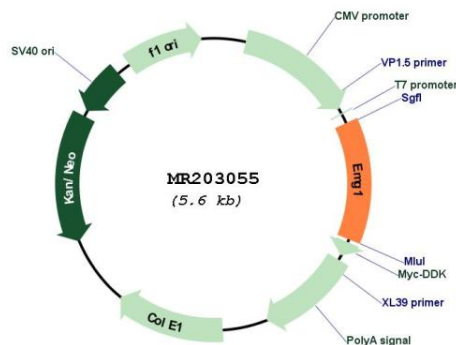
**UniProt ID:** [O35130](#)

**Cytogenetics:** 6 59.17 cM

**MW:** 27 kDa

**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 (m1 acp3-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]

### Product images:



Circular map for MR203055