

Product datasheet for **RG208885**

EMG1 (NM_006331) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EMG1 (NM_006331) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EMG1
Synonyms:	C2F; Grcc2f; NEP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208885 representing NM_006331 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGCCAGTGATGGATTCAAGCCTCGTGAACGAAGCGGTGGGAGCAGGCACAGGACTGGGATG
CTCTGCCACCCAAGCGGCCCGACTAGGGGCAGGAAACAAGATCGGAGGCCGTAGGCTTATTGTGGTGCT
GGAAGGGCCAGTCTGGAGACAGTCAAGGTAGGGAAGACATATGAGCTACTCACTGTGACAAGCACAAG
TCTATATTGTTGAAGAATGGACGGGACCCTGGGAAGCGCGCCAGATATCACCCACCAGAGTTTGTCTGA
TGCTGATGGATAGTCCCCTGAACCGAGCTGGCTTGCTACAGGTTTATATCCATACACAGAAGAATGTTCT
GATTGAAGTGAATCCCCAGACCCGAATCCAGAACCTTTGACCGCTTTTGTGGCCTCATGGTTCAACTT
TTACACAAGCTCAGTGTTTCGAGCAGCTGATGGCCCCAGAAGCTTTTGAAGGTAATTAAGAATCCAGTAT
CAGATCACTTTCCAGTTGGATGTATGAAAGTTGGCACTTCTTTTCCATCCCGGTTGTCAGTGATGTGCG
TGAGCTGGTGCCAGCAGTGATCCTATTGTTTTGTGGTAGGGCCCTTTGCCCATGGCAAGGTCAGTGTG
GAGTATACAGAGAAGATGGTGTCCATCAGTAACCTACCCCTTTCTGCTGCCCTCACCTGTGCAAACTTA
CCACAGCCTTTGAGGAAGTATGGGGGTCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208885 representing NM_006331
 Red=Cloning site Green=Tags(s)

MAAPSDGFKPRERSGGEQAQDWDALPPKRPRLGAGNKIGGRRLIVVLEGASLETVKVGKTYELLNCDKHK
 SILLKNGRDPGEARPDITHQSLMLMDSPLNRAGLLQVYIHTQKNVLEIVNPQTRIPRTFDRFCGLMVQL
 LHKLSVRAADGPQKLLKVIKNPVSDFHPVGCМКVGTСFSIPVVSДVRELVPSSDPIVFVVGAFAHGKVSV
 EYTEKMVSISNYPLSAALTCAKLTTAFEEVWGVI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006331

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.
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_006331.8](#)

RefSeq Size: 1019 bp

RefSeq ORF: 735 bp

Locus ID: 10436

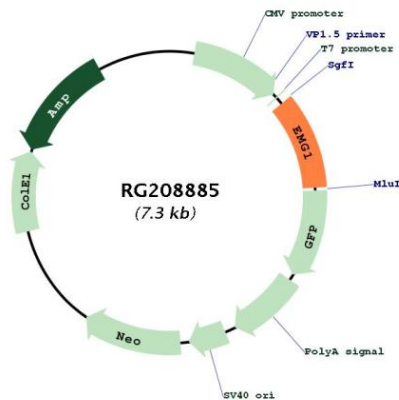
UniProt ID: [Q92979](#)

Cytogenetics: 12p13.31

Domains: Mra1

Gene Summary: This gene encodes an essential, conserved eukaryotic protein that methylates pseudouridine in 18S rRNA. The related protein in yeast is a component of the small subunit processome and is essential for biogenesis of the ribosomal 40S subunit. A mutation in this gene has been associated with Bowen-Conradi syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG208885