

Product datasheet for **RG218346**

EME2 (NM_001010865) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EME2 (NM_001010865) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EME2
Synonyms:	FLJ00151; gs125; SLX2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218346 representing NM_001010865
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCGGGTTGGACCCGGGAGGGCGGGGTCTCTTCCAGGGCCGGGCGGGGACGGGGCGGGAGCG
 GTCAGCGGCGACCTCCAACCTGGGAGATCTCAGACTCCGACGCTGAGACTCCGCGCGCTCGGAGGCCGC
 CGCGAGAGCCCGGACCCAGCGGTGAGCGCAGGGCGGCTGCCGAGGCGTTGCGGCTGCTCGGCCGGAG
 CAGGTGCTGAAGCGCCTCGCGGTGTGCGTGGACACAGCCATCCTGGAAGACGCGGTTGCCGACGTCTGA
 TGGAGGCCCTGGAGGCCCTGGGCTGCGAGTGCCGCATCGAGCCCCAGCGCCCGGCCGACGCTCGGGT
 GACCCGAGCGAGTCCCGACCCCTGCCCCCGCAGCTGCCTCTGAAGTGTGGGCTGCAGGTGAACAGGAA
 TTGCTGCTGCTGAGAGCCGAGGAGTTTCTGCAGGGCGTCGCCACACTGACCCAGATCTCTGGCCAA
 CCCACTGGGTGCCCTGGATCTCCCCGAGACCACCGCCCGGCCACCTGGCTGCATCGGGCTGGATGC
 CTACCTGTGGTACCGTCACTCTCATGCCACAGCAGGGCTGGCTGGGACGGGGTTGAGGGGAGGTGGG
 CTCTGGCAGAGGCCAAGCTCGGGCAGGGCAGGCCCATGGGGAGCGGGGAGGAATGGTCACTCTGCTCA
 GGTCTCGCCAGCACGTTTCCCGGGGACACAGCAGCCAGAGAGCCGAAGGTGGCCGGTCCCGAGGTGGC
 CGTCAGCTGGCCGGAGGTGGAAGAGGTGAGGGCCTGTCTGAGCTGGGCCCTGGTACTCCTGCAGCTCTGG
 GCAAACCTGGACGTGCTACTGGTGGCCTTTGGCAGGAGCTGAGTCGGCACGTGTGCGCCGTTACCAAGG
 CTCTCGCCAGTATCCCCTCAAGTGCCTGATGCCAAGGCTGAAGGGGGCAGGATCACCTCAAGGCAGTA
 CCGGGAATCCCAGGCCTTCTCTTCTGCACAGCAGGGCGCTGGGAGCCCGGAGCCAGTGGCAAGAGAC
 GGCGCAGGGCTGCAGGCGCCTGGCGGAGGCAGATCAGGCAGTTCAGTCGGGTGAGCCAGCCGTTGGCTG
 ATGCAGTTGTACAGCCTTCCCCTCCCCCGCCTTCTGCAGCAGGCGCTGGAGGCCTGCAGCACGGAGCG
 GGAGCGCATGGGCCTCTGGCCGACCTTCTGTGCCGCCAGTGAAGGCGGGCGTCCCCGAGGGTGGGG
 CCTGACCTCTCCCGCCGATCTGCCTTCTGACCACAGCCAACCCTGATCTCCTGCTGGACCTGGGCT
 CC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218346 representing NM_001010865
 Red=Cloning site Green=Tags(s)

MARVGPGRAGVSCQGRGRGRGGSGQRRPPTWEISDSDAEDSAGSEAAARARDPAGERRAAAEALRLLRPE
 QVLKRLAVCVDTAILEDAGADVLMEALEALGCECRIEPQRPARSLRWTRASPDPCPRSLPPEVWAAGEQE
 LLLLLLEPEEFQGVATLTQISGPTHWVPWISPETTARPHLAVIGLDAYLWYRSLSCPQQGWLGRGFRGGG
 LWQRPSSGRAGPMGSGEEWSPLLRSRQHVSRTGQPESPKVAGAEVAVSWPEVEEVRACL SWALVLLQLW
 ANLDVLLVASWQELSRHVCAVTKALAQYPLKCVMPRLKGGRITSRQYRESQAFSFC TAGRWAAGEPVARD
 GAGLQAARRRQIRQFSRVSPAVADAVVTAFPSRLLQQALEACSTERERMGLLADLPVPPSEGGRRPRRVG
 PDLRRIICLFLTTANPDLLLDLGS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001010865

ORF Size: 1331 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_001010865.1](#), [NP_001010865.1](#)

RefSeq Size: 1335 bp

RefSeq ORF: 1334 bp

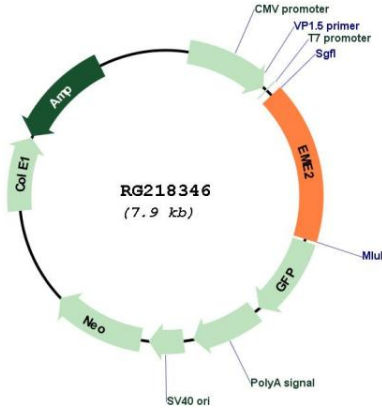
Locus ID: 197342

Cytogenetics: 16p13.3

Gene Summary:

EME2 forms a heterodimer with MUS81 (MIM 606591) that functions as an XPF (MIM 278760)-type flap/fork endonuclease in DNA repair (Ciccia et al., 2007 [PubMed 17289582]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG218346