

Product datasheet for **RG233925**

EME2 (NM_001257370) Human Tagged ORF Clone

Product data:

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

ORF Nucleotide Sequence: >RG233925 representing NM_001257370
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGCGGGTTGGACCCGGGAGGGCGGGGTCTCTTGCCAGGGCCGGGCGGGGACGGGGCGGGAGCG
GTCAGCGGGGACCTCCAACCTGGGAGATCTCAGACTCCGACGCTGAGGACTCCGCCGGCTCGGAGGCCG
CGCGAGAGCCCGGACCCAGCGGGTGAGCGCAGGGCGGCTGCCGAGGCGTTGCGGCTGCTGCGGCCGGAG
CAGGTCCTGAAGCGCTCGCGGTGTGCGTGGACACAGCCATCCTGGAAGACGCCGTGCCGACGTCCTGA
TGGAGGCCCTGGAGGCCCTGGGCTGCGAGTGCCGCATCGAGCCCCAGCGCCCGGCCCGCAGCCTGCGGTG
GACCCGAGCGAGTCCCGACCCCTGCCCGCAGCCTGCCTCCTGAAGTGTGGGCTGCAGGTGAACAGGAA
TTGCTGCTGCTGCTGGAGCCCGAGGAGTTTCTGCAGGGCGTCGCCACACTGACCCAGATCTCTGGCCAA
CCCACTGGGTGCCCTGGATCTCCCCGAGACACCGCCCGGCCCACTGGCTGTCTCGGGCTGGATGC
CTACCTGTGGTCTCGCCAGCAGCTTTCCCGGGGACACAGCAGCCAGAGAGCCCGAAGGTGGCCGGTGCC
GAGGTGGCCGTGAGTGGCCGGAGGTGGAAGAGGCCCTGGTACTCTGCAGCTCTGGGCAACCTGGACG
TGCTACTGGTGGCCTCTTGGCAGGAGCTGAGTCGGCACGTGTGCGCCGTACCAAGGCTCTCGCCAGTA
TCCCTCAAGCAGTACCGGGAATCCAGGCCTTCTCTTCTGCACAGCAGGGCGCTGGGAGCCGGCGAG
CCAGTGGCAAGAGACGGCGCAGGGCTGCAGGCGGCTGGCGAGGCAGATCAGGCAGTTCACTCGGGTCA
GCCCAGCCGTGGCTGATGCAAGTGTACAGCCTTCCCTCCCCCGCCTTCTGCAGCAGGCGCTGGAGGC
CTGCAGCACGGAGCGGAGCGCATGGGCTCTGGCCGACCTTCTGTGCCCGCAGTGAAGCGGGCGT
CCCCGAGGTGGGCTGACCTCTCCGCGCATCTGCCTTCTCTGACCACGCCAACCTGATCTCC
TGCTGGACCTGGGCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



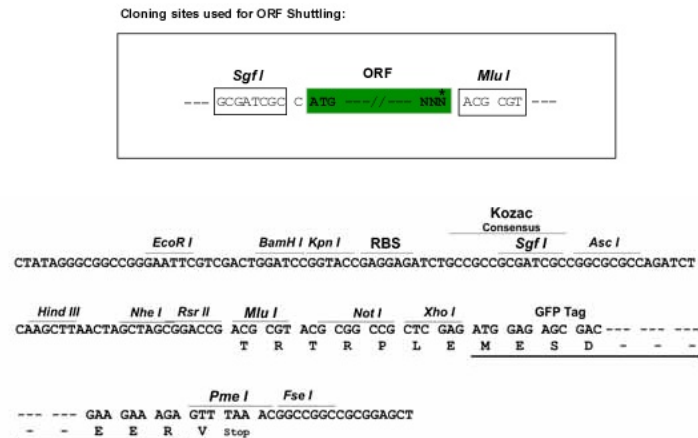
Protein Sequence: >RG233925 representing NM_001257370
 Red=Cloning site Green=Tags(s)

MARVGPGRAGVSCQGRGRGRGGSGQRRPPTWEISDSAEDSAGSEAAARARDPAGERRAAAEALRLLRPE
 QVLKRLAVCVDTAILEDAGADVLMEALEALGCECRIEPQRPARSLRWTRASPDPCPSLPPPEVWAAGEQE
 LLLLLPEEFLQGVATLTQISGPTHWVPWISPETTARPHLAVIGLDAYLWSRQHVSRTGQPEQPKVAGA
 EVAVSWPEVEEALVLLQLWANLDVLLVASWQELSRHVCATKALAQYPLKQYRESQAFSFC TAGRWAAGE
 PVARDGAGLQAAWRRQIRQFSRVSPAVADAVVTAFFSPRLQQALEACSTERERMGLLADLPVPPSEGGR
 PRRVGPDLSSRICLFLTTANPDLLLDLGS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001257370

ORF Size: 1137 bp

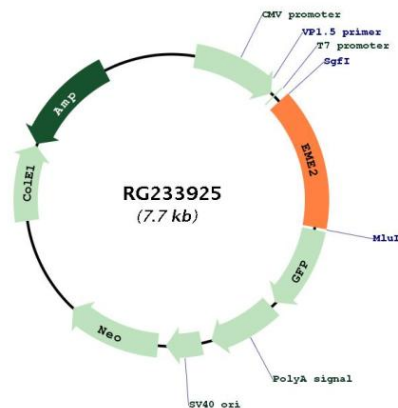
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001257370.1, NP_001244299.1</u>
RefSeq Size:	1140 bp
RefSeq ORF:	1140 bp
Locus ID:	197342
UniProt ID:	<u>A4GXA9</u>
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 RG233925