

Product datasheet for **MG224817**

Meaf6 (NM_027310) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Meaf6 (NM_027310) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Meaf6
Synonyms: 2310005N01Rik; 2810036M01Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224817 representing NM_027310
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGATGCACAACAAGACGGCGCCGCCGAGATCCCAGACACCCGGCGGGAGCTGGCCGAGCTGGTTA
 AGCGGAAGCAGGAGCTGGCGAAACACTTGCAAACCTGGAGAGACAGATATATGCTTTTGAAGGAAGCTA
 CCTGGAAGACTCAGATGTATGGCAATATTATCCGTGGCTGGGATCGGTATTTGACCAATCAAAGAAC
 TCCAATAGCAAAAACGACCGGAGGAACCGAAGTTCAAGGAGGCCGAACGGCTCTTCAGCAAATCCTCAG
 TACGTCCGGCTGCTGCAGTAAGTGCCTTGGCAGGGTTCAGGACCAGCTCATCGAAAAGAGGAACCAGG
 AAGTGGGACGGAAAGCGATACTTCCAGACTTCCACAATCAGGAAAACGAGCCTGCGCAGGAGGACCCC
 GAGGACCTAGACGGCTCCGTCCAGGGAGTGAAACCTCAGAAAGCCGCTCTTCCACCTCCTCAGGAAGCC
 ACCACAGCAGCCACAAAAACGGAAGAATAAAAACCGGCACAGAATGAATGTCTCCCCCAAACCTGGCTG
 GCACCAGCTCCATCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224817 representing NM_027310
 Red=Cloning site Green=Tags(s)

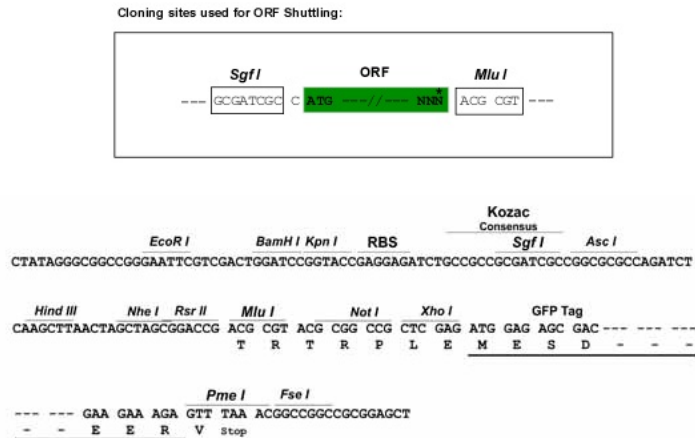
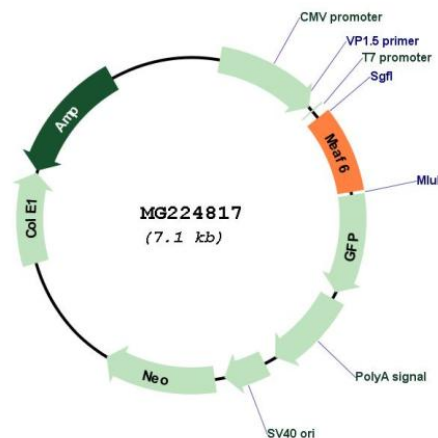
MAMHNKTAPPQIPDTRRELAELVKRKQELAETLANLERQIYAFEGSYLEDTQMYGNIIRGWDRYL TNQKN
 SNSKNDRNRKFKEAERLFSKSSVTSAAAVSALAGVQDQLIEKREPGSGTESDTSPDFHNQENEP AQEDP
 EDLDGSVQGVKPKQAASSTSSGSHHSHKKRKNRHRMNVSPQTGWHLHL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_027310

ORF Size: 576 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_027310.5](#)

RefSeq Size: 876 bp

RefSeq ORF: 579 bp

Locus ID: 70088

UniProt ID: [Q2VPO9](#)

Cytogenetics: 4 D2.2

Gene Summary: Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histone H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Component of the MOZ/MORF complex which has a histone H3 acetyltransferase activity (By similarity).[UniProtKB/Swiss-Prot Function]