

## Product datasheet for MR206940

### Maea (NM\_021500) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Maea (NM_021500) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Maea
Synonyms:	1110030D19Rik; EMP; Gid9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206940 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGTGCAGGAGTCGGCGGCCAGCTGTCCATGACCCTGAAGGTGCAGGAGTACCCGACCCTCAAGG  
TGCCCTATGAGACTGAACAAACGCTCCGAGCTGCTCAGAAAAACATCGATCGAGAGACTAGCCACGT  
CACCATGGTGGTAGCTGAGCTTGAGAAGACCTTGAGTAGTTGCCAGCTGTGGACTCTGTGGTCAGCCTA  
TTGGATGGTGTGGTGGAGAAGCTGAGTGTCTCAAGAGGAAGGCAGTAGAGTCCATCCAGGCCGAGGATG  
AGAGCGCAAGCTCTGCAAACGTAGGATCGAGCACCTCAAGGAGCACAGCAGTGACCAGCCAGCAGCAGC  
CAGCATGTGGAAGCGGAAGCGCATGGACCGGATGATGGTGGAGCATCTGCTACGCTGTGGCTACTACAAC  
ACAGCTGTGAAGCTGGCTCGCCAGAGTGGCATCGAGGACCTTGTGAATATCGAGATGTTCTGACAGCCA  
AAGAAGTGGAGGAGTCTTGGAGAGGCGTGAGACAGCCACCTGCCTTGCCTGGTCCATGATAACAAGTC  
CCGACTCCGGAAGATGAAGAGCTGCCTAGAGTTCAGCCTCAGGATTCAGGAGTTCATTGAACTTGTCCGG  
CAGAACAAGCGCCTGGATGCTGTGAGACATGCAAGAAAGCACTTCAGTCAGGCTGAAGGGAGCCAGCTGG  
ATGAGGTCCGCCAGGTCATGGGCATGTTGGCCTCCCACCAGACACACATATCTCCCATACAAGGACCT  
CCTGGACCCAGCCCGTGGCAATGCTGATCCAGCAGTTTCGATATGATAACTACCGCTGCACCAGCTG  
GGAAACAGCTCAGTCTTACCCTCACCTGCAGGCTGGGCTCTCAGCAATAAAGACACCACAGTGCTACA  
AGGAGGATGGCAGCTCTAAGAGCCCTGACTGCCCTGTGTGCAGCCGCTCTCTGAACAAACTGGCACAGCC  
CCTGCCATGGCTCACTGTGCCAACTCCCGCTGGTCTGCAAGATCTCTGGTACGCTGATGAATGAGAAT  
AACCCACCATGATGCTGCCTAATGGCTATGTCTATGGCTACAATTCTCTGCTTTCTATTCTGTAAGATG  
ATAAAGTTGTTTGCCAAGAACCAAGAAGTCTTCCACTTCTCCAAGCTGAGAAAGTATACATCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206940 protein sequence  
Red=Cloning site Green=Tags(s)

MAVQESAAQLSMTLKVQEYPTLKVPEYETLNKRFRAAQKNIDRETSHVTMVVAELEKTLSSCPAVDSVVSL  
 LDGVVEKLSVLKRKAVESIQAEDESAKLCKRRIEHLKEHSSDQPAASAMWKRKRMDRMMVEHLLRCGYYN  
 TAVKLARQSGIEDLVNIEMFLTAKEVEESLERRETATCLAWCHDNKSRLRKMKSCLFSLRIQEFIELVR  
 QNKRLDAVRHARKHFSAEGLDEVRQVMGMLAFPPDTHISPYKDLLDPARWRMLIQFRYDNYRLHQL  
 GNSSVFTLTLQAGLSAIKTPQCYKEDGSSKSPDCPVCSRSLNKL AQPLMAHCANSRLVCKISGDVMNEN  
 NPPMMLPNGYVYGYNSLLSIRQDDKVVCPRTKEVFHFSQAEKVYIM

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\_021500

**ORF Size:** 1191 bp

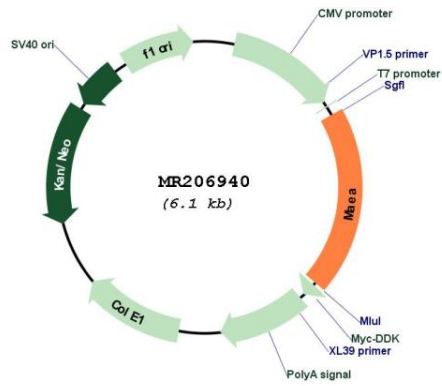
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_021500.2</a></u> , <u><a href="#">NP_067475.2</a></u>
<b>RefSeq Size:</b>	2128 bp
<b>RefSeq ORF:</b>	1191 bp
<b>Locus ID:</b>	59003
<b>UniProt ID:</b>	<u><a href="#">Q4VC33</a></u>
<b>Cytogenetics:</b>	5 B1
<b>MW:</b>	45.3 kDa
<b>Gene Summary:</b>	<p>Core component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1. MAEA and RMND5A are both required for catalytic activity of the CTLH E3 ubiquitin-protein ligase complex. MAEA is required for normal cell proliferation. The CTLH E3 ubiquitin-protein ligase complex is not required for the degradation of enzymes involved in gluconeogenesis, such as FBP1 (By similarity). Plays a role in erythroblast enucleation during erythrocyte maturation and in the development of mature macrophages (PubMed:16707498). Mediates the attachment of erythroid cell to mature macrophages; this MAEA-mediated contact inhibits erythroid cell apoptosis (By similarity). Participates in erythroblastic island formation, which is the functional unit of definitive erythropoiesis (PubMed:16707498, PubMed:17071116). Associates with F-actin to regulate actin distribution in erythroblasts and macrophages (PubMed:16707498). May contribute to nuclear architecture and cells division events (By similarity).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR206940