

Product datasheet for **MG206940**

Maea (NM_021500) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Maea (NM_021500) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Maea
Synonyms:	1110030D19Rik; EMP; Gid9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206940 representing NM_021500 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGCAGGAGTCGGCGGCCAGCTGTCCATGACCCTGAAGGTGCAGGAGTACCCGACCCTCAAGG
TGCCCTATGAGACTGAACAAACGCTCCGAGCTGCTCAGAAAAACATCGATCGAGAGACTAGCCACGT
CACCATGGTGGTAGCTGAGCTTGAGAAGACCTTGAGTAGTTGCCAGCTGTGGACTCTGTGGTCAGCCTA
TTGGATGGTGTGGTGGAGAAGCTGAGTGTCTCAAGAGGAAGGCAGTAGAGTCCATCCAGGCCGAGGATG
AGAGCGCCAAGCTCTGCAAACGTAGGATCGAGCACCTCAAGGAGCACAGCAGTGACCAGCCAGCAGCAGC
CAGCATGTGGAAGCGGAAGCGCATGGACCGGATGATGGTGGAGCATCTGCTACGCTGTGGCTACTACAAC
ACAGCTGTGAAGCTGGCTCGCCAGAGTGGCATCGAGGACCTTGTGAATATCGAGATGTTCTGACAGCCA
AAGAAGTGGAGGAGTCTTGGAGAGGCGTGAGACAGCCACCTGCCTTGCCTGGTCCATGATAACAAGTC
CCGACTCCGGAAGATGAAGAGCTGCCTAGAGTTCAGCCTCAGGATTCAGGAGTTCATTGAACTTGTCCGG
CAGAACAAGCGCCTGGATGCTGTGAGACATGCAAGAAAGCACTTCAGTCAGGCTGAAGGGAGCCAGCTGG
ATGAGGTCCGCCAGGTCATGGGCATGTTGGCCTCCCACCAGACACACATATCTCCCATACAAGGACCT
CCTGGACCCAGCCCGTGGCAATGCTGATCCAGCAGTTTCGATATGATAACTACCGCTGCACCAGCTG
GGAAACAGCTCAGTCTTACCCTCACCTGCAGGCTGGGCTCTCAGCAATAAAGACACCACAGTGCTACA
AGGAGGATGGCAGCTCTAAGAGCCCTGACTGCCCTGTGTGCAGCCGCTCTCTGAACAAACTGGCAGCC
CCTGCCATGGCTCACTGTGCCAACTCCCGCTGGTCTGCAAGATCTCTGGTACGCTGATGAATGAGAAT
AACCCACCATGATGCTGCCTAATGGCTATGTCTATGGCTACAATTCTCTGCTTTCTATTCTGTAAGATG
ATAAAGTTGTTTGCCCAAGAACCAAGAAGTCTTCCACTTCTCCAAGCTGAGAAAGTATACATCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206940 representing NM_021500
 Red=Cloning site Green=Tags(s)

MAVQESAAQLSMTLKVQEYPTLKVPEYETLNKRFRAAQKNIDRETSHVTMVVAELEKTLSSCPAVDSVVSL
 LDGVVEKLSVLKRKAVESIQAEDESAKLCKRRIEHLKEHSSDQPAASAMWKRKRMDRMMVEHLLRCGYYN
 TAVKLARQSGIEDLVNIEMFLTAKEVEESLERRETATCLAWCHDNKSRLRKMKSCLFSLRIQEFIELVR
 QNKRLDAVRHARKHFSAEGLDEVRQVMGMLAFPPDTHISPYKDLLDPARWRMLIQQFRYDNYRLHQL
 GNSSVFTLTLQAGLSAIKTPQCYKEDGSSKSPDCPVCSRSLNKLAAQLPMAHCANSRLVCKISGDVMNEN
 NPPMMLPNGYVYGYNSLLSIRQDDKVVCPRTKEVFHFSQAQEKVYIM

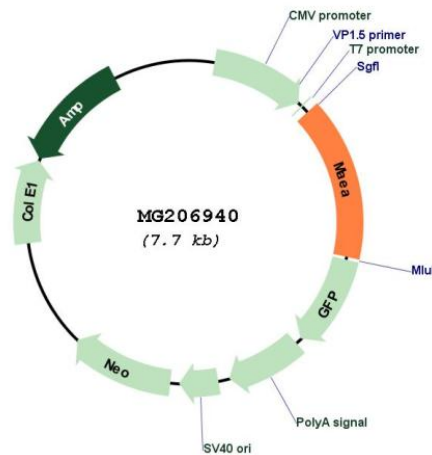
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021500

ORF Size:	1188 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:	<ol style="list-style-type: none">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_021500.2 , NP_067475.2
RefSeq Size:	2128 bp
RefSeq ORF:	1191 bp
Locus ID:	59003
UniProt ID:	Q4VC33
Cytogenetics:	5 B1
Gene Summary:	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]