

Product datasheet for **MG206018**

Maea (BC039054) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Maea (BC039054) 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:	>MG206018 representing BC039054 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCTGAAGGTGCAGGAGTACCCGACCCTCAAGGTGCCCTATGAGACACTGAACAAACGTTCCGAG
CTGCTCAGAAAAACATCGATCGAGAGACTAGCCACGTACCATGGTGGTAGCTGAGCTTGAGAAGACCTT
GAGTAGTTGCCAGCTGTGGACTCTGTGGTCAGCCTATTGGATGGTGTGGTGGAGAAGCTGAGTGCCTC
AAGAGGAAGGCAGTAGAGTCCATCCAGGCCGAGGATGAGAGCCCAAGCTCTGCAAACGTAGGATCGAGC
ACCTCAAGGAGCACAGCAGTGACCAGCCAGCAGCAGCCAGCATGTGGAAGCGGAAGCGCATGGACCGGAT
GATGGTGGAGCATCTGCTACGCTGTGGCTACTACAACACAGCTGTGAAGCTGGCTCGCCAGAGTGGCATC
GAGGACCTTGTAATATCGAGATGTTCTGACAGCCAAAGAAGTGGAGGAGTCCTTGAGAGGCGTGGAGA
CAGCCACCTGCCTTGCTGGTGCATGATAACAAGTCCCGACTCCGGAAGATGAAGAGCTGCCTAGAGTT
CAGCCTCAGGATTCAGGAGTTCATTGAACTTGTCCGGCAGAAACAGCGCCTGGATGCTGTGAGACATGCA
AGAAAGCACTTCAGTCAGGCTGAAGGGAGCCAGCTGGATGAGGTCCGCCAGGTCATGGGCATGTTGGCT
TCCCACCAGACACACATATCTCCCATAACAAGGACCTCCTGGACCCAGCCCGGTGGCGAATGCTGATCCA
GCAGTTTCGATATGATAACTACCGGCTGCACCAGCTGGGAAACAGCTCAGTCTTCACCCTCACCTGCAG
GCTGGGCTCTCAGCAATAAAGACACCACAGTGCTACAAGGAGGATGGCAGCTCTAAGAGCCCTGACTGCC
CTGTGTGCAGCCGCTCTCTGAACAAACTGGCACAGCCCTGCCATGGCTCACTGTGCCAACTCCCGCCT
GGTCTGCAAGATCTCTGGTGACGTGATGAATGAGAATAACCCACCCATGATGCTGCCTAATGGCTATGTC
TATGGCTACAATTCTCTGCTTTCTATTCGTCAGATGATAAAGTTGTTTGCCCAAGAACCAAGAAGTCT
TCCACTTCTCCAAGCTGAGAAAGTATACATCATG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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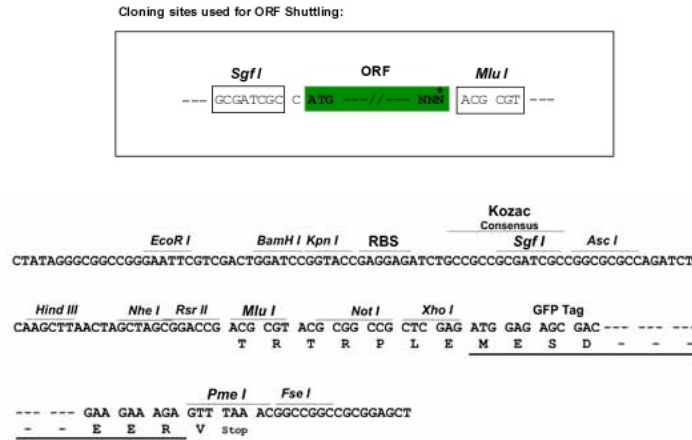
Protein Sequence: >MG206018 representing BC039054
 Red=Cloning site Green=Tags(s)

MTLKVQEYPTLKVPYETLNKRFRAAQKNIDRETSHVTMVVAELEKTLSSCPAVDSVVSLLDGVVEKLSVL
 KRKAVESIQAEDESAKLCKRRIEHLKEHSSDQPAASMWKRKRMDRMMVEHLLRCGYNTAVKLARQSGI
 EDLVNIEMFLTAKVEESLERRETATCLAWCHDNKSRLRKMKSCLFSLRIQEFIELVRQNKRLDAVRHA
 RKHFSQAEGSQLDEVQRQVMGMLAFPPDTHISPYKDLLDPARWRMLIQQFRYDNYRLHQLGNSSVFTLTLQ
 AGLSAIKTPQCYKEDGSSKSPDCPVCRSRLNKL AQPLPMAHCANSRLVCKISGDVMNENPPMMLPNGYV
 YGYNLLSIRQDDKVVCPRTKEVFHFSQAEKVYIM

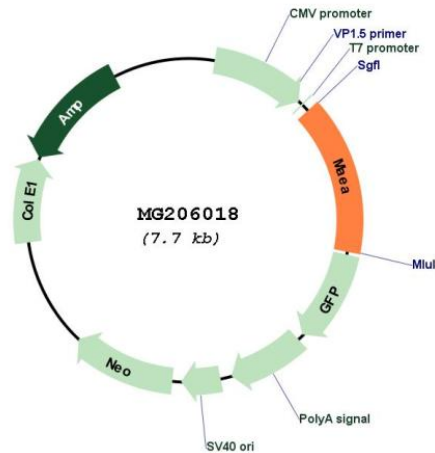
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC039054

ORF Size:	1158 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:	BC039054.1
RefSeq Size:	2128 bp
RefSeq ORF:	1157 bp
Locus ID:	59003
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]