OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RN205354

Maea (NM_001008319) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Maea (NM_001008319) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Maea
Synonyms:	MGC93683
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>RN205354 representing NM_001008319
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGTGCAGGAGTCGGCGGCCCAGCTGTCCATGACCCTGAAGGTGCAGGAGTACCCGACCCTCAAGG
TGCCCTATGAGACACTGAATAAACGCTTCCGAGCTGCTCAGAAAAACATTGATCGGGAGACCAGCCACGT
CACCATGGTGGTAGCTGAGCTTGAGAAGACCTTGAGTAGCTGCCCAGCTGTGGACTCTGTGGTCAGCCTA
CTGGATGGAGTGGTGGAGAAGCTGAGTGTCCTCAAGAGGAAGGCAGTAGAGTCCATCCAGGCCGAGGATG
AGAGCGCCAAGCTCTGCAAACGTAGGATCGAGCACCTCAAGGAGCACAGCAGTGACCAGCCAGCGGCGGC
CAGCATGTGGAAGCGGAAGCGCATGGACCGAATGATGGTGGAGCACCTGCTGCGCTGTGGCTACTACAAC
ACAGCTGTGAAGCTGGCTCGCCAGAGTGGCATTGAGGACCTTGTGAATATCGAGATGTTCCTGACAGCCA
AAGAAGTGGAGGAGTCCTTGGAGAGGCGTGAGACAGCCACCTGCCTTGCCTGGTGCCATGATAACAAGTC
CCGACTCCGGAAGATGAAGAGCTGCTTAGAGTTCAGCCTCAGGATTCAGGAGTTCATCGAACTTGTCCGG
CAGAACAAGCGCCTGGATGCTGTGAGACATGCAAGAAAGCACTTCAGTCAGGCTGAAGGGAGCCAACTGG
ATGAGGTCCGCCAGGTCATGGGCATGCTGGCCTTCCCACCAGACACACATATCTCTCCATACAAGGACCT
CCTGGACCCAGCCCGGTGGCGAATGCTGATCCAGCAGTTTCGATATGACAACTACCGGCTGCACCAGCTG
GGAAACAGCTCCGTCTTCACCCTCACCCTGCAGGCTGGGCTCTCAGCAATAAAGACACCACAGTGCTACA
AGGAGGATGGCAGCTCCAAGAGCCCCGACTGCCCTGTGTGCAGCCGCTCTCTGAACAAACTGGCACAGCC
CCTACCCATGGCTCACTGTGCCAACTCCCGCCTGGTCTGCAAGATCTCTGGTGACGTGATGAACGAGAAC
AACCCACCCATGATGCTGCCTAATGGCTATGTCTATGGCTACAATTCTCTGCTTTCTATTCGTCAAGATG
ATAAAGTTGTTTGCCCAAGAACCAAAGAAGTCTTCCACTTCTCCCAAGCTGAGAAAGTGTACATCATGTA
G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001008319
Insert Size:	1191 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001008319.2, NP_001008320.2
RefSeq Size:	2178 bp
RefSeq ORF:	1191 bp
Locus ID:	298982
UniProt ID:	Q5RKJ1
Cytogenetics:	14q21
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 (By similarity). 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. Associates with F-actin to regulate actin distribution in erythroblasts and macrophages (By similarity). May contribute to nuclear architecture and cells division events (By similarity).[UniProtKB/Swiss-Prot Function]