

Product datasheet for **RG216473**

MAEA (NM_005882) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MAEA (NM_005882) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | MAEA |
| Synonyms: | EMLP; EMP; GID9; HLC-10; P44EMLP; PIG5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG216473 representing NM_005882 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCTGAAGGTCCAGGAGTACCCGACCCTCAAGGTGCCCTACGAGACGCTGAACAAACGCTTTCGCG
CCGCTCAGAAGAACATTGACCGGGAGACCACCCACGTACCATGGTGGTGGCCGAGCTGGAGAGGACGTT
GAGCGGCTGCCCCGCGTGGACTCCGTGGTCAGCCTGCTGGACGGCGTGGTGGAGAAGCTCAGCGTCCTC
AAGAGGAAGCGGTGGAATCCATCCAGGCCGAGGACGAGAGCGCCAAGCTGTGCAAGCTCCGGATCGAGC
ACCTCAAAGAGCATAGCAGCGACCAGCCCGCGGCCAGCGTGTGGAAGAGGAAGCGCATGGATCGCAT
GATGGTGGAGCACCTGCTGCGTTGCGGCTACTACAACACGGCTGTCAAGCTGGCGGCCAGAGCGGCATC
GAGAGCTGCCTGGAGTTCAGCCTCAGAATCCAGGAGTTCATTGAACTCATCCGGCAGAATAAGAGACTGG
ACGCTGTGAGACATGCAAGAAAGCACTTCAGCCAAGCAGAAGGGAGCCAGCTGGACGAGGTGCGCCAGGC
CATGGGCATGCTGGCCTTCCC GCCGACACGCACATCTCCGTACAAGGACCTTCTGGACCCTGCACGGTG
GCGGACCTGCACGGTGGCGGATCTGATCCAGCAGTTCGGTACGACAACCTACCGACTACACCAGCTGGGA
ACAATTCTGTGTTCCACCTCACCTGCAGGCCGGCCTCTCAGCCATCAAGACACCACAGTGCTACAAGG
AGGACGGCAGCTCCAAGAGCCCTGTCTGCCCTGTGTGCAGCCGCTCCCTGAACAAGCTGGCGCACGCCTG
CCATGGCCACTGTGCCAACTCCCGCCTGGTCTGCAAGATTTCTGGCGACGTGATGAACGAGAACAATC
CGCCATGATGCTGCCAACGGCTACGTCTACGGCTACAATTCTCTGCTTCTATCCGTCAAGATGATAA
AGTCGTGTGCCGAGAACCAAAGAAGTCTTCCACTTCTCACAAGCCGAGAAGGTGTACATCATGTATGCC
CCACGTGTGAAGCGCACCCCTCGGGACGGGCTGCAGTGGCGGGGAGGCACGCTTCTCTGTCCACGC
CTCCAGCTGCCGCGGCTTTCTGTTTCTTGCACCAAAGATCCGTGAGCAACGATAAACTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216473 representing NM_005882
 Red=Cloning site Green=Tags(s)

MTLKVQEYPTLKVPYETLNKRFRAAQKNIDRETSHVTMVVAELERTLSGCPAVDSVVSLLDGVVEKLSVL
 KRKAVESIQAEDESAKLCKLRIEHLKEHSSDQPAASVWKRKRMDRMMVEHLLRCGYNTAVKLARQSGI
 ESCLEFSLRIQEFIELIRQNKRLDAVRHARKHFSQAEGSQLDEVQAMGMLAFPPDTHISVQGPSGPCTV
 ADLHGGGSDPAVPVRQLPTTPAGKQFCVHPHPAGRPLSHQDTTVLQGGRQLQEPCLPCVQPLPEQAGARL
 PMAHCANSRLVCKISGDVMNENPPMMLPNGYVYGYNSLLSIRQDDKVVCPRTKEVFHFSQAEEKVYIMYA
 PRREAHPRGRAAVGGEARFLLSHAPACRGVSVSCDQRSVSNKYS

TRTRPLE - GFP Tag - V

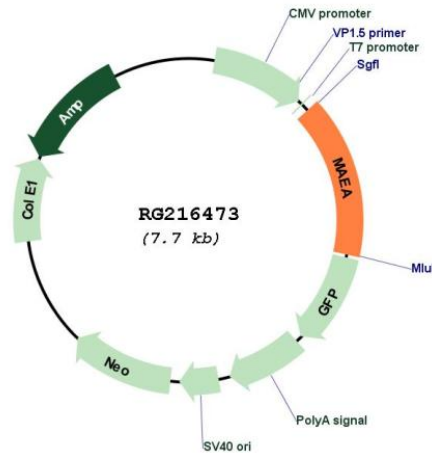
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_005882

| | |
|-------------------------------|---|
| ORF Size: | 1185 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_005882.2 , NP_005873.1 |
| RefSeq Size: | 1983 bp |
| RefSeq ORF: | 1068 bp |
| Locus ID: | 10296 |
| UniProt ID: | Q7L5Y9 |
| Cytogenetics: | 4p16.3 |
| Domains: | LisH, CTLH |
| Protein Families: | Druggable Genome |
| Gene Summary: | This gene encodes a protein that mediates the attachment of erythroblasts to macrophages. This attachment promotes terminal maturation and enucleation of erythroblasts, presumably by suppressing apoptosis. The encoded protein is an integral membrane protein with the N-terminus on the extracellular side and the C-terminus on the cytoplasmic side of the cell. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014] |