

## Product datasheet for **MG224017**

### Alg12 (NM\_001142357) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alg12 (NM_001142357) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Alg12
Synonyms:	ECM39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG224017 representing NM\_001142357  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGGCAAGAAGTCATCGGCAAGCGGTCATGGCCGTTCTGGGGCTGCTGGTCACTGTAGCCACCA  
 TCCACCTGGTTATATGTCCTACACCAAGGTAGAAGAGAGCTTCAACCTTCAGGCCACACATGACCTCCT  
 GTACCACCAGCTGGACATAGACAAGTACGACCACCAGAGTTTCTGGAGTTGTTCTTAGGACGTTCTCTC  
 GGGCCGCTGGTATCGCAGCGTTCTCCAGCCCCGTGGTTTATGTGCTCTCGCTTTTAGAAGTATCCAAAT  
 TTTATTCTCAGCTGATAGTCAGAGGAGTCTTGGGCTTGGTGTGATTTCTGGACTCTGGACATTACAAAA  
 GGAAGTGAGACAGCAGTTCGGAGCCACGGTGGCTGTATGTTCTGCTGGATATCAGCCACACAGTTTCAT  
 CTCATGTTCTACTGTACGAGGACTCCCAACGTGTTGGCCCTGGCTGTGGTCTTACCAGCCCTCACAG  
 CCTGGCTGCAGCGGAGGTGGGCCCTGTTGTCTGGCTCTCAGCCTTCGTCATCATTGGCTTCAGGGCTGA  
 GCTGGCCATGCTGCTGGCATTGCGCTGCTGCTGACCTTGTACCAAAGAAGACTGACGGTGGCCAGAGTG  
 CTTCCGACACGCCATCCCAGCAGGGCTTCTCTGTCTAGGGCTGACGGTTCGCTGTGGACTCCTATTTCTGGC  
 GATACCTTGATGGCCGAAGGAGTGGTCTTGGTACAACACTGTCTGAACAAAAGTTCCAACCTGGGG  
 CACTTCCCCTACTCTGTGGTATTTCTACTCAGCCCTGCCCGAGGCCCTGGGCTGCAGCCTTCTTTCATA  
 CCCCTGGGTGCAGTGGACAGGAGGACCTATGCACTGGCCCTGCCAAGCTTGGGATTCGTGGCTCTACT  
 CACTCCTCCCACACAAGGAGCTGCGGTTTCATCATCTATACCTTCCTGTCTCAACATCATGGCTGCCAG  
 AGGCTGCACCTATATCCTGAATAAAAAGTCTTGGCCATAACAAGGTGAGAGCTATGCTGGTGACAGGGCAT  
 ATCTTGGTGAATGTGGCATATACAGCCAGTCCCTCTATGTGTCTCATTCAACTACCCTGGTGGGGTTG  
 CGATGCAGCAGCTACATGAGCTGGTACCACCTCAGACAGATGTCCTTCTCACATTGATGTGGCTGTC  
 CCAGACAGGAGTGTACGGTTTCTACAGGTCAATGATGACTGGAGGTATGACAAGAGTGAAGATGTGGGA  
 GCAGCGGCCATGCTGAACTACACCCACATCCTCATGGAGGCAGTCCCTGGGCACCCGGCCCTCTACAGGG  
 ACACACATCGAGTCTGGCCAGTATTGAGGGCACTACAGGTATAAGCCTGAATTTGATGAAACTGCCACC  
 CTTTGATGTCAACCTGCAGACAAAGCTGGTACTTCTAGAGCGGCTGCTTAGGCCAGCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG224017 representing NM\_001142357  
 Red=Cloning site Green=Tags(s)

MAGKKSSGKRSWPLLGLLVTVATIHLVICPYTKVEESFNLQATHDLLYHQLDIDKYDHHFPGVVPRTFL  
 GPLVIAAFSSPVVYVLSLLEVSQFYSQIVRGVLGLGVISGLWTLQKEVRQFGATVAVMFCWISATQFH  
 LMFYCTRTPNVLALAVVLPALTAWLQRRWALFVWLSAFVVIIGFRAELAMLLGIALLLTLYQRRLTVARV  
 LRHAIPAGLLCLGLTVAVDSYFWRYLVWPEGVVLWYNTVLNKSSNWGTSPLLWYFYSALPRGLGCSLLFI  
 PLGAVDRRTYALALPSLGFVALYLLPHKELRFIIYTFPVLNIMAARGCTYILNKKSWPYKVRAMLVTGH  
 ILVNVAYTATSLYVSHFNYPGGVAMQQLHELVPPTQDVLHIDVAAAQTGVSRLFQVNDWRDYKSEDVGV  
 AAAMLNYTHILMEAVPGHPALYRDTHRVLASIEGTTGISLNLMLKPPFDVNLQTKLVLLERLLRPA

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001142357

**ORF Size:** 1458 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:**

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\\_001142357.1](#), [NP\\_001135829.1](#)

**RefSeq Size:** 2131 bp

**RefSeq ORF:** 1461 bp

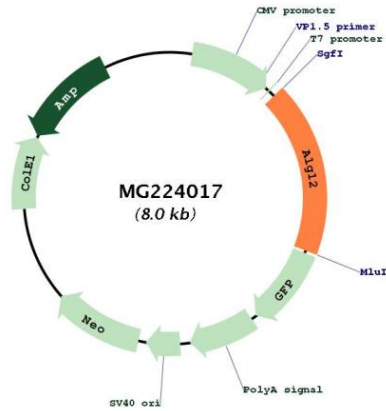
**Locus ID:** 223774

**UniProt ID:** [Q8VDB2](#)

**Cytogenetics:** 15 E3

**Gene Summary:** Adds the eighth mannose residue in an alpha-1,6 linkage onto the dolichol-PP-oligosaccharide precursor (dolichol-PP-Man(7)GlcNAc(2)) required for protein glycosylation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG224017