

Product datasheet for **MR224017**

Alg12 (NM_001142357) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alg12 (NM_001142357) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alg12
Synonyms:	ECM39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR224017 representing NM_001142357
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGGCAAGAAGTCATCGGGCAAGCGGTCATGGCCGTTCTGGGGCTGCTGGTCACTGTAGCCACCA
 TCCACCTGGTTATATGTCCCTACACCAAGGTAGAAGAGAGCTTCAACCTTCAGGCCACACATGACCTCCT
 GTACCACCAGCTGGACATAGACAAGTACGACCACCAGAGTTTCTGGAGTTGTTCTTAGGACGTTCTCTC
 GGGCCGCTGGTATCGCAGCGTTCTCCAGCCCCGTGGTTTATGTGCTCTCGCTTTTAGAAGTATCCAAAT
 TTTATTCTCAGCTGATAGTCAGAGGAGTCTTGGGCTTGGTGTGATTTCTGGACTCTGGACATTACAAAA
 GGAAGTGAGACAGCAGTTCGGAGCCACGGTGGCTGTATGTTCTGCTGGATATCAGCCACACAGTTTCAT
 CTCATGTTCTACTGTACGAGGACACTCCCAACGTGTTGGCCCTGGCTGTGGTCTTACCAGCCCTCACAG
 CCTGGCTGCAGCGGAGGTGGGCCCTGTTGTCTGGCTCTCAGCCTTCGTATCATTGGCTTCAGGGCTGA
 GCTGGCCATGCTGCTGGCATTGCGCTGCTGCTGACCTTGTACCAAAGAAGACTGACGGTGGCCAGAGTG
 CTCGACACGCCATCCCAGCAGGGCTTCTCTGTCTAGGGCTGACGGTTGCTGTGGACTCCTATTTCTGGC
 GATACCTTGATGGCCGAAGGAGTGGTCTTGGTACAACACTGTCTGAACAAAAGTTCCAACCTGGGG
 CACTTCCCCTACTCTGTGGTATTTCTACTCAGCCCTGCCCGAGGCCCTGGGCTGCAGCCTTCTTTCATA
 CCCCTGGGTGCAGTGGACAGGAGGACCTATGACTGGCCCTGCCAAGCTTGGGATTCGTGGCTCTACT
 CACTCCTCCCACACAAGGAGCTGCGGTTTCATCATCTATACCTTCCTGTCTCAACATCATGGCTGCCAG
 AGGCTGCACCTATATCCTGAATAAAAAGTCTTGGCCATAACAAGGTGAGAGCTATGCTGGTGCAGGGCAT
 ATCTTGGTGAATGTGGCATATACAGCCAGTCCCTCTATGTGTCTCATTCAACTACCCTGGTGGGGTTG
 CGATGCAGCAGCTACATGAGCTGGTACCACCTCAGACAGATGTCCTTCTCACATTGATGGCTGCTGC
 CCAGACAGGAGTGTACCGTTTTCTACAGGTCAATGATGACTGGAGGTATGACAAGAGTGAAGATGTGGGA
 GCAGCGGCCATGCTGAACTACACCCACATCCTCATGGAGGCAGTCCCTGGGCACCCGGCCCTCTACAGGG
 ACACACATCGAGTCTGGCCAGTATTGAGGGCACTACAGGTATAAGCCTGAATTTGATGAACTGCCACC
 CTTTGATGTCAACCTGCAGACAAAGCTGGTACTTCTAGAGCGGCTGCTTAGGCCAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224017 representing NM_001142357
 Red=Cloning site Green=Tags(s)

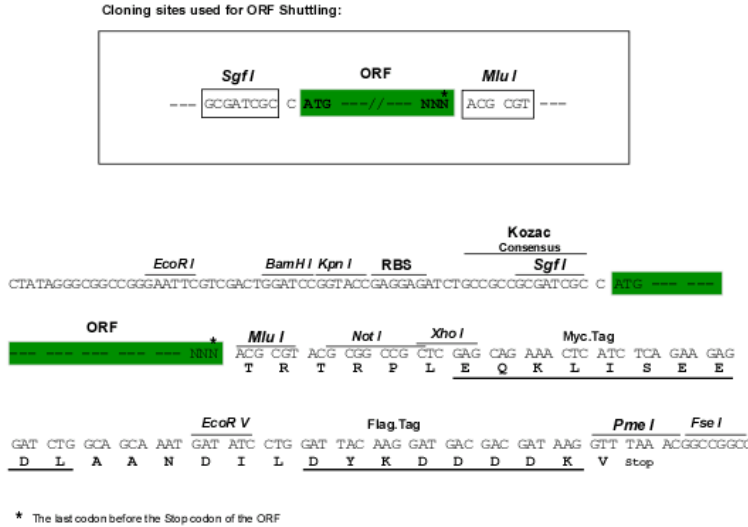
MAGKKSSGKRSWPLLGLLVTVATIHLVICPYTKVEESFNLQATHDLLYHQLDIDKYDHFPGVVPRTFL
 GPLVIAAFSSPVVYVLSLLEVSKFYSQLIVRGVLGLGVISGLWTLQKEVRQQFGATVAVMFCWISATQFH
 LMFYCTRTPNVLALAVLPAWTAWLQRRWALFVWLSAFVVIIGFRAELAMLLGIALLLTLYQRRLTVARV
 LRHAIPAGLLCLGLTVAVDSYFWRYLVWPEGVVLYWNTVNLKSSNWGTSPLLWYFYFYSALPRGLGCSLLFI
 PLGAVDRRTYALALPSLGFVALYSLPHKELRFIIYTFPVLNIMAARGCTYILNKKSWPYKVRAMLVTGH
 ILVNVAYTATSLYVSHFNYPGGVAMQQLHELVPPTDVLHIDVAAAQTGVSRFLQVNDWRYDKSEVDG
 AAAMLNYTHILMEAVPGHPALYRDTHRVLASIEGTTGISLNLMLKPPFDVNLQTKLVLLERLLRPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

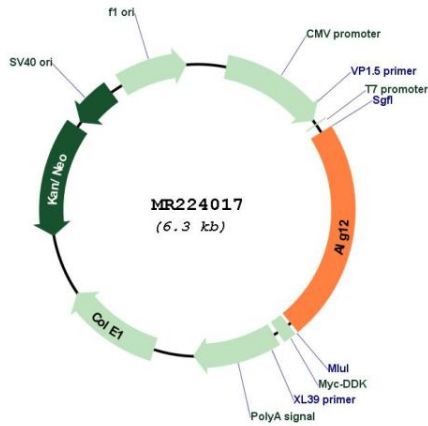
RefSeq ORF: 1461 bp

Locus ID: 223774

UniProt ID: [Q8VDB2](#)

Cytogenetics: 15 E3
MW: 55 kDa
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 MR224017