

Product datasheet for MR206021

Alg12 (NM_145477) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Alg12 (NM_145477) 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)
 ORF Nucleotide Sequence: >MR206021 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGGCAAGAAGTCATCGGGCAAGCGGTTCATGGCCGCTTCTGGGGCTGCTGGTCACTGTAGCCACCA
 TCCACCTGGTTATATGTCCTACACCAAGGTAGAAGAGAGCTTCAACCTCAGGCCACACATGACCTCCT
 GTACCACCAGCTGGACATAGACAAGTACGACCACCAGAGTTTCTGGAGTTGTTCTAGGACATTCCTC
 GGGCCGCTGGTGATCGCAGCGTTCTCCAGCCCCGTGGTTTATGTGCTCTCGCTTTTAGAAGTATCCAAAT
 TTTATTCTCAGCTGATAGTCAGAGGAGTCTTGGGCTTGGTGTGATTTCTGGACTCTGGACATTACAAA
 GGAAGTGAGACAGCAGTTCGGAGCCACGGTGGCTGTCATGTTCTGCTGGATATCAGCCACACAGTTTCAT
 CTCATGTTCTACTGTACGAGGACTCCCAACGTGTTGGCCCTGGCTGTGGTCTTACCAGCCCTCACAG
 CCTGGCTGCAGCGGAGGTGGGCCCTGTTGTCTGGCTCTCAGCCTTCGTCATCATTGGCTCAGGGCTGA
 GCTGGCCATGCTGCTGGGCATTGCGCTGCTGCTGACCTTGTACCAAGAAGACTGACGGTGGCCAGAGTG
 CTCCGACACGCCATCCCAGCAGGCTTCTCTGTCTAGGCAAGTTGGCATCTCTGGTTTGCCTCCTGAATA
 AAAAGTCTTGGCCATACAAGGTGAGAGCTATGCTGGTACAGGGCATATCTTGGTGAATGTGGCATATAC
 AGCCACGTCCTCTATGTGTCTCATTCAACTACCCTGGTGGGGTTGCGATGCAGCAGCTACATGAGCTG
 GTACCACCTCAGACAGATGTCCTTCTTACATTGATGTGGCTGCTGCCAGACAGGAGTGCACGGTTTC
 TACAGGTCAATGATGACTGGAGGTATGACAAGAGTGAAGATGTGGGAGCAGCGCCATGCTGAACTACAC
 CCACATCCTCATGGAGGAGTGCCTGGGCACCCGGCCCTTACAGGGACACACATCGAGTCTGGCCAGT
 ATTGAGGGCACTACAGGTATAAGCCTGAATTTGATGAACTGCCACCCTTGTGATGTCAACTGCAGACAA
 AGCTGGTACTTCTAGAGCGGCTGCTTAGGCCAGCC

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206021 protein sequence
Red=Cloning site Green=Tags(s)

MAGKKSSGKRSWPLLGLLVTVATIHVICPYTKVEESFNLQATHDLLYHQLDIDKYDHEFPGVVPRFTL
 GPLVIAAFSSPVVYVLSLLEVSKFYSQLIVRGVLGLGVISGLWTLQKEVRQFGATVAVMFCWISATQFH
 LMFYCTRTLPNVLALAVLPLATWLQRRWALFVWLSAFVVIIGFRAELAMLLGIALLLTLYQRRLTVARV
 LRHAIPAGLLCLGKLASLVCLLNKKSWPYKVRAMLVTGHILVNVAYTATSLYVSHFNYPGGVAMQQLHEL
 VPPQTDVLLHIDVAAAQTVSRFLQVNDWRYDKSEDEVGAAAMLNYTHILMEAVPGHPALYRDTHRVLAS
 IEGTTGISLNLMLKLPFDVNLQTKLVLLERLLRPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145477

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:

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_145477.1](#), [NP_663452.1](#)

RefSeq Size: 1828 bp

RefSeq ORF: 1158 bp

Locus ID: 223774

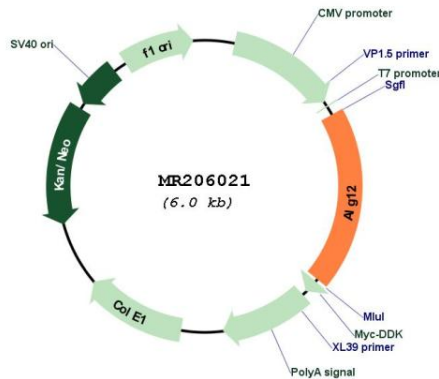
UniProt ID: [Q8VDB2](#)

Cytogenetics: 15 E3

MW: 42.9 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 MR206021