

## Product datasheet for **MG206021**

### Alg12 (NM\_145477) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alg12 (NM_145477) 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)
ORF Nucleotide Sequence:	>MG206021 representing NM_145477 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGGCAAGAAGTCATCGGGCAAGCGGTCATGGCCGCTTCTGGGGCTGCTGGTCACTGTAGCCACCA  
TCCACCTGGTTATATGTCCTACACCAAGGTAGAAGAGAGCTTCAACCTCAGGCCACACATGACCTCCT  
GTACCACCAGCTGGACATAGACAAGTACGACCACCAGGTTTCTGGAGTTGTTCTAGGACATTCCTC  
GGCCCGCTGGTGATCGCAGCGTTCTCCAGCCCCGTGGTTTATGTGCTCTCGCTTTTAGAAGTATCCAAAT  
TTTATTCTCAGCTGATAGTCAGAGGAGTCTTGGGCTTGGTGTGATTTCTGGACTCTGGACATTACAAA  
GGAAGTGAGACAGCAGTTCGGAGCCACGGTGGCTGTCATGTTCTGCTGGATATCAGCCACACAGTTTCAT  
CTCATGTTCTACTGTACGAGGACTCCCAACGTGTTGGCCCTGGCTGTGGTCTTACCAGCCCTCACAG  
CCTGGCTGCAGCGGAGGTGGGCCCTGTTGTCTGGCTCTCAGCCTTCGTCATCATTGGCTCAGGGCTGA  
GCTGGCCATGCTGCTGGCATTGCGCTGCTGCTGACCTTGTACCAAGAAGACTGACGGTGGCCAGAGTG  
CTCCGACACGCCATCCCAGCAGGCTTCTGTCTAGGCAAGTTGGCATCTCTGGTTTGCCTCCTGAATA  
AAAAGTCTGGCCATACAAGGTGAGAGCTATGCTGGTACAGGGCATATCTTGGTGAATGTGGCATATAC  
AGCCACGTCCTCTATGTGTCTCATTCAACTACCCTGGTGGGTTGCGATGCAGCAGCTACATGAGCTG  
GTACCACCTCAGACAGATGTCCTTCTTACATTGATGTGGCTGCTGCCAGACAGGAGTGCACGGTTTC  
TACAGGTCAATGATGACTGGAGGTATGACAAGAGTGAAGATGTGGGAGCAGCGCCATGCTGAACTACAC  
CCACATCCTCATGGAGGAGTGCCTGGGCACCCGGCCCTTACAGGGACACACATCGAGTCTGGCCAGT  
ATTGAGGGCACTACAGGTATAAGCCTGAATTTGATGAACTGCCACCCTTGTATGTCAACTGCAGACAA  
AGCTGGTACTTCTAGAGCGGCTGCTTAGGCCAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206021 representing NM\_145477  
 Red=Cloning site Green=Tags(s)

MAGKKSSGKRSWPLLGLLVTVATIHLVICPYTKVEESFNLQATHDLLYHQLDIDKYDHHEFPGVVPRTFL  
 GPLVIAAFSSPVVYVLSLLEVSKFYSQLIVRGVLGLGVISGLWTLQKEVRQFGATVAVMFCWISATQFH  
 LMFYCTRTPNLVALAVLPLATWLQRRWALFVWLSAFVVIIGFRAELAMLLGIALLLTLYQRRLTVARV  
 LRHAIPAGLLCLGKLASLVCLLNKKSWPYKVRAMLVTGHILVNVAYTATSLYVSHFNYPGGVAMQQLHEL  
 VPPQTDVLLHIDVAAAQTVSRFLQVNDWRYDKSEVDGAAAMLNYTHILMEAVPGHPALYRDTHRVLAS  
 IEGTTGISLNLMLKLPFDVNLQTKLVLLERLLRPA

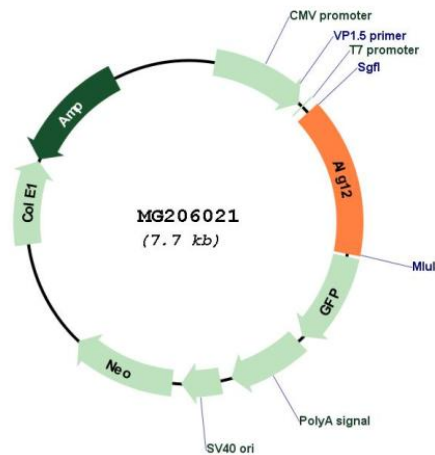
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_145477

<b>ORF Size:</b>	1155 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_145477.1</a> , <a href="#">NP_663452.1</a>
<b>RefSeq Size:</b>	1812 bp
<b>RefSeq ORF:</b>	1158 bp
<b>Locus ID:</b>	223774
<b>UniProt ID:</b>	<a href="#">Q8VDB2</a>
<b>Cytogenetics:</b>	15 E3
<b>Gene Summary:</b>	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]