

## Product datasheet for **MG215729**

### Alg11 (NM\_183142) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alg11 (NM_183142) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Alg11
Synonyms:	AI849156; AW492253; B230397C21; Mmat-4(5)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG215729 representing NM\_183142  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGCGGACACTGGGAGCTGGTGCCTGTACGCCGTGTCGCGTTTTTCTATTACTTCTTTCTCTG  
 GACTGATGATATGCGGAGTTTTGTGTATATTTGGTCATTGGCCTTTGGGTTATCAGGTGGCATCTACA  
 GAGAAAGAAGAAGTCTGTGTCGACCAGCAAAAATGAAAAAGAACAAACGGTGGTTGCATTTTTCCATCCA  
 TACTGTAATGCAGGTGGCGGAGGAGAGAGATTCTGTGGTGTGCTTTGAGAGCCCTGCAGAAAAAGAAAC  
 GCTACCTGTGGAAGATCCCGGTATCCTCACTTACATTGCTAGGCCAAAGTCTGGATCCATTCTTCT  
 CGGCTGGGAAGCTCTGATGCAGCGCTTCTGATGTTTACATCGACTCAATGGGATACGCCTTACACTC  
 CCTCTCTTAAGTATGTGGGAGTTGCCGAGTCGGAAGCTATGTTCACTATCCCACGATCAGCACTGACA  
 TGCTGTCTGTGGTGAAGAATCAGAATCCTGGATTAATAATGCTGCTTTCATTAGCAGAAATGCTCTTCT  
 CAGCAAAGCAAAGCTCATCTATTACTATTTATTTGCTTTTGTGTTATGGCCTTGTGGATCTTGCAGTGAC  
 ATAGTCATGGTTAATCTTCTTGGACATTAACCATATCCTCTCACTGTGGAAGGTTGGGCATTGCACTA  
 ACATTGTCTATCCACCTTGTGATGTGCAGACATTTCTGGACATCCCTTACATGAGAAGAAGGTGACCCC  
 AGGGCATTGTGGTTCCATTGGCCAGTTCAGACCTGAAAAGAATCATGCTTTGCAGATCAAAGCCTTT  
 GCTAAATTGTTAAATGAGAAAGCAGCTGAGTTAGGCCATTCTCTAAACTTGCTTATTGGAGGGTGTC  
 GCAACAAAGATGATGAGTTTAGAGTAAACCACTGAGAAGTCTATCTGAGAATTTGGGAGTTCAAGAAAA  
 TGTGGAATTTAAAATAACATTTTCATTCGATGAATTGAAGAATTACTTGTCTGAAGCGACCATCGGTCTG  
 CATACTATGTGGAATGAGCATTTTGGGATTGGAGTTGTCGAGTGTATGGCAGCTGGCACAGTTATCCTTG  
 CACACAACCTCAGGAGGCCCGAAGCTGGACATTGTCATTCTCATGAAGGACAGATAACTGGCTTTCTGGC  
 TGAGAGTGAAGAAGGCTATGCTGACTCTATGGCTCACATTCTTTCTCTGTCTGCAGAAGAGACTCCAA  
 ATCAGGAAGAATGCTAGAGCGTCTATAAGCAGATTCTCCGACCAGGAGTTGAAGTAGCATTCTGTGTT  
 CCATGGAGAAGTTACTTACT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG215729 representing NM\_183142  
 Red=Cloning site Green=Tags(s)

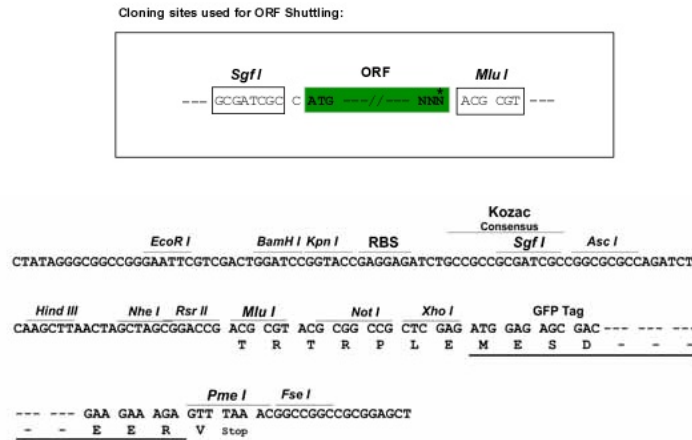
MAADTGSWCYAVLRFYSLFFPGLMICVLCVYLVIGLWVIRWHLQRKKKSVSTSKNGKEQTVVAFFHP  
 YCNAGGGGERVLWCALRALQKKRYLVEDSRYPHFTLLGQSLGSILLGWEALMQRVPDVYIDSMGYAFTL  
 PLFKYVGGCRVGSYVHYPTISTDMLSVVKNQNPGFNNAAFISRNALLSKAKLIYYLFAFVYGLVGSCSD  
 IVMVNSSWTLNHILSLWKVGHCTNIVYPPCDVQTFLDIPLHEKKVTPGHLLVSIQFRPEKNHALQIKAF  
 AKLLNEKAAELGHSLKLVLIIGCRNKDDEFVNQLRSLSENLVQENVEFKINISFDELKNYLSEATIGL  
 HTMWNEHFGIGVVECMAAGTVILAHNSGGPKLDIVIPHEGQITGFLAESEEGYADSMAHILSLSAEERLQ  
 IRKNARASISRFSDQEFVAFVFLCSMEKLLT

**TRTRPLE** - GFP Tag - V

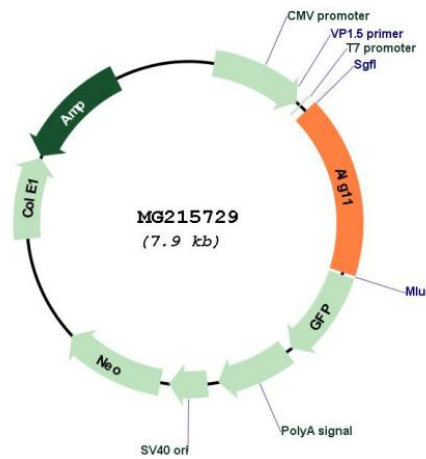
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_183142

ORF Size:

1350 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.

<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>	<u><a href="#">NM_183142.4</a></u> , <u><a href="#">NP_898965.1</a></u>
<b>RefSeq Size:</b>	1497 bp
<b>RefSeq ORF:</b>	1353 bp
<b>Locus ID:</b>	207958
<b>UniProt ID:</b>	<u><a href="#">Q3TZM9</a></u>
<b>Cytogenetics:</b>	8 A2
<b>Gene Summary:</b>	Mannosyltransferase involved in the last steps of the synthesis of Man5GlcNAc(2)-PP-dolichol core oligosaccharide on the cytoplasmic face of the endoplasmic reticulum. Catalyzes the addition of the 4th and 5th mannose residues to the dolichol-linked oligosaccharide chain (By similarity).[UniProtKB/Swiss-Prot Function]