

## Product datasheet for **MR230208**

### Alg11 (NM\_001243161) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alg11 (NM_001243161) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alg11
Synonyms:	A1849156; AW492253; B230397C21; Mmat-4(5)
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230208 representing NM\_001243161  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCGGACACTGGGAGCTGGTGCCTGACGCCGTGTCGGTTTTCTATTACTCTCTTTCTG  
 GACTGATGATATGCGGAGTTTTGTGTATATTTGGTCATTGGCCTTTGGTTATCAGGTGGCATCTACA  
 GAGAAAGAAGAAGTCTGTGTCGACCAGCAAAAATGAAAAAGAACAAACGGTGGTTGCATTTTTCCATCCA  
 TACTGTAATGCAGGTGGCGGAGGAGAGAGATTCTGTGGTGTGCTTTGAGAGCCCTGCAGAAAAAGTATC  
 CTGAAGCAGTTTATGTTGTATATACTGGTGACATTAATGTCAGTGGTCAACAGATACTAGATGGTCTTT  
 CAGAAGGTTTAAACATCAAGTTGGCTCACCCAGTGCAGTTTGTCTTAAAGAAACGCTACCTTGTGGAA  
 GATTCCCGGTATCCTCACTTACATTGCTAGGCCAAAGTCTTGGATCCATTCTTCTCGGTGGGAAGCTC  
 TGATGCAGCGCTTCTGATGTTACATCGACTCAATGGGATACGCCCTTCACTCCCTCTCTTTAAGTA  
 TGTGGGAGTTGCCGAGTCGGAAGCTATGTTCACTATCCACGATCAGCACTGACATGCTGTCTGTGGTG  
 AAGAATCAGAATCCTGGATTTAATAATGCTGCTTCATTAGCAGAAATGCTCTTCTCAGCAAAGCAAAGC  
 TCATCTATTACTATTTATTTGCTTTTGTATGGCCTTGTGGATCTTGCAGTGACATAGTCATGGTTAA  
 TTCTTCTTGACATTAACCATATCCTCTCACTGTGGAAGTTGGGCATTGCACTAACATTGTCTATCCA  
 CCTTGTGATGTGCAGACATTTCTGGACATCCCTTTACATGAGAAGAAGGTGACCCAGGGCATTGCTGG  
 TTTCCATTGGCCAGTTCAGACCTGAAAAGAATCATGCTTTGCAGATCAAAGCCTTTGCTAAATTGTTAAA  
 TGAAAAGCAGCTGAGTTAGGCCATTCTTAACTTGTCTTATTGGAGGGTGTGCAACAAAGATGAT  
 GAGTTTAGAGTAAACCAACTGAGAAGTCTATCTGAGAATTTGGGAGTTCAAGAAAATGTGGAATTTAAA  
 TAAACTTTTCATTCGATGAATTGAAGAATTACTTGTCTGAAGCGACCATCGGTCTGCATACTATGTGGA  
 TGAGCATTTTGGGATTGGAGTTGTGAGTGTATGGCAGCTGGCACAGTTATCCTTGCACACAACACTAGGA  
 GGCCCGAAGCTGGACATTGCTCCTCATGAAGGACAGATAACTGGCTTCTGGCTGAGAGTGAAGAAG  
 GCTATGCTGACTCTATGGCTCACATTCTTCTCTGCTGTCAGAAGAGAGACTCCAATCAGGAAGAATGC  
 TAGAGCGTCTATAAGCAGATTCTCCGACCAGGAGTTTGAAGTAGCATTCTGTGTCCATGGAGAAGTTA  
 CTTACT

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230208 representing NM\_001243161  
 Red=Cloning site Green=Tags(s)

MAADTGSWCVYAVLRFYSLFFPGLMICGVLCVYLVIGLWVIRWHLQRKKKSVSTSKNGKEQTVVAFFHP  
 YCNAGGGGERVLWCALRALQKYPEAVYVYTGDIINVSGQQLDGAFFFFRIKL AHPVQFVFLRKYRVE  
 DSRYPHF TLLGQSLGSILLGWEALMQRVPDVIIDSMGYAFTLPLFKYVGGCRVGSVYHYPTISTDMLSVV  
 KNQNPGFNNAAFISRNALLSKAKLIYYLFAFVYGLVGSCSDIVMVNSSWTLNHILSLWKVGHCTNIVYP  
 PCDVQTFLDIPLHEKKVTPGHLLVSIQFRPEKNHALQIKAFKLLNEKAAELGHSLKLVLIIGCRNKDD  
 EFRVNQLRSLSENLVQENVEFKINISFDELKNYLSEATIGLHTMWNHFHIGVVECMAGTVILAHNSG  
 GPKLDIVIPHEGQITGFLAESEEGYADSMHILSLSAEERLQIRKNARASISRFSDQEFVAF LCSMEKL  
 LT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

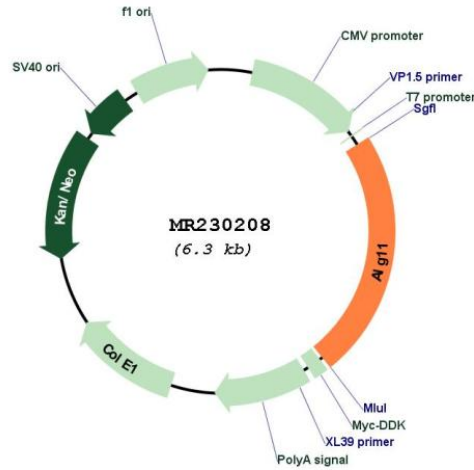
SgfI-MluI

## Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001243161

**ORF Size:** 1476 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).

<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_001243161.1</a></u> , <u><a href="#">NP_001230090.1</a></u>
<b>RefSeq Size:</b>	4970 bp
<b>RefSeq ORF:</b>	1479 bp
<b>Locus ID:</b>	207958
<b>UniProt ID:</b>	<u><a href="#">Q3TZM9</a></u>
<b>Cytogenetics:</b>	8 A2
<b>MW:</b>	55.7 kDa
<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]